

FM/AM RECEIVER

KR-A4060/A5060

SERVICE MANUAL

KENWOOD

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B51-4945-00 (K)3891

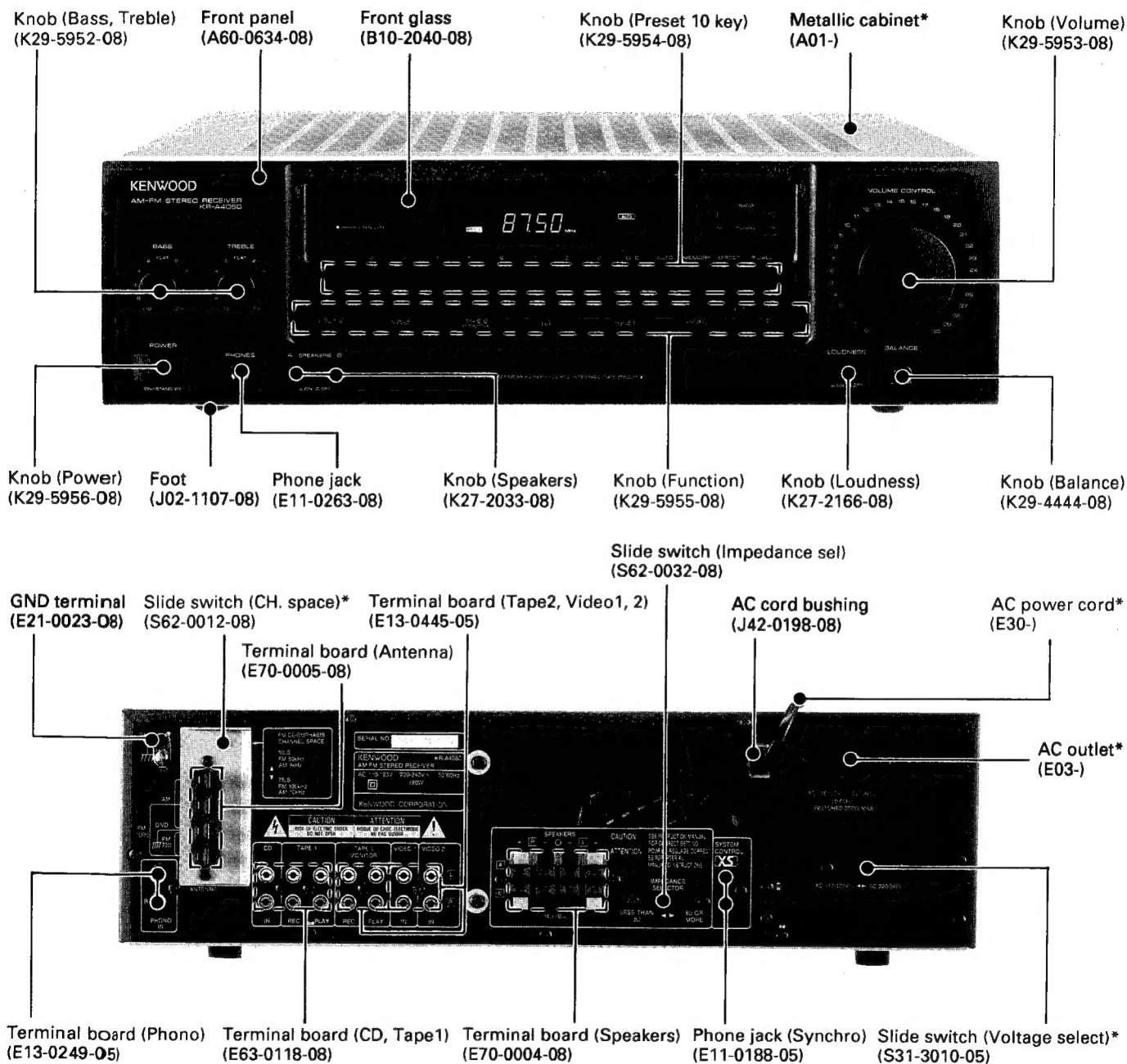


Photo is KR-A4060 (M type).

*Refer to parts list on page 35.

KR-A4060/A5060

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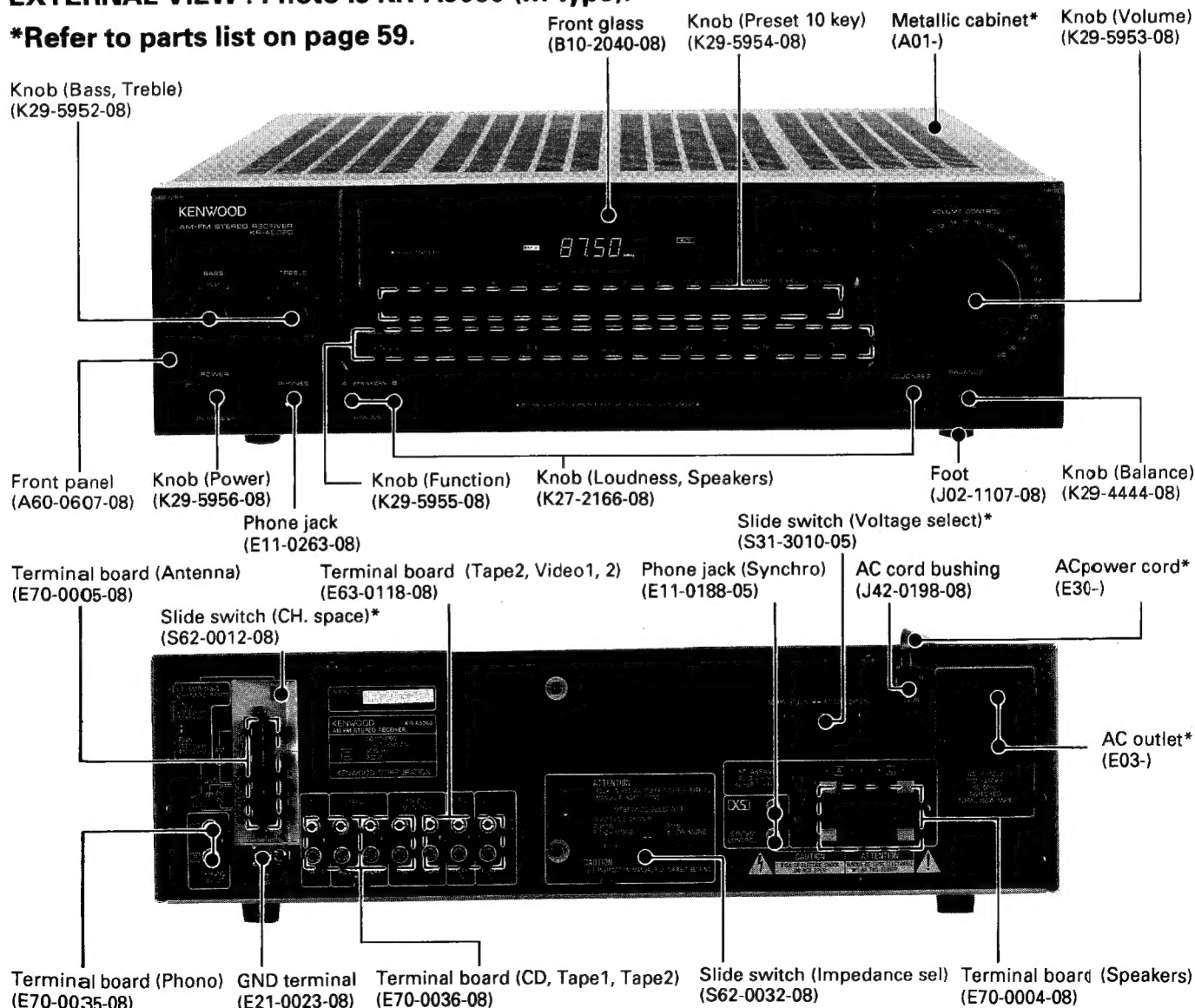
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EXTERNAL VIEW : Photo is KR-A5060 (M type).

*Refer to parts list on page 59.



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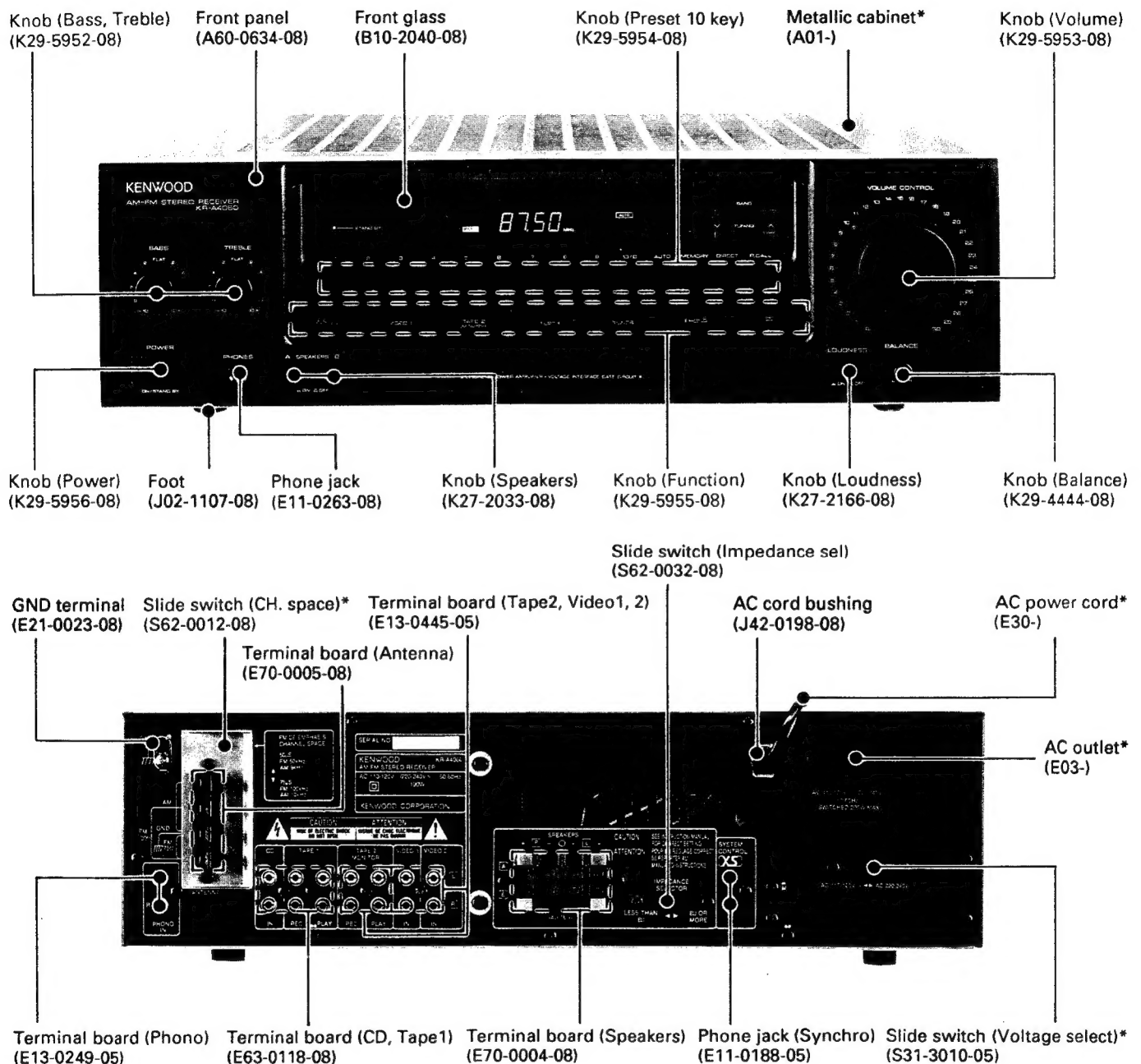
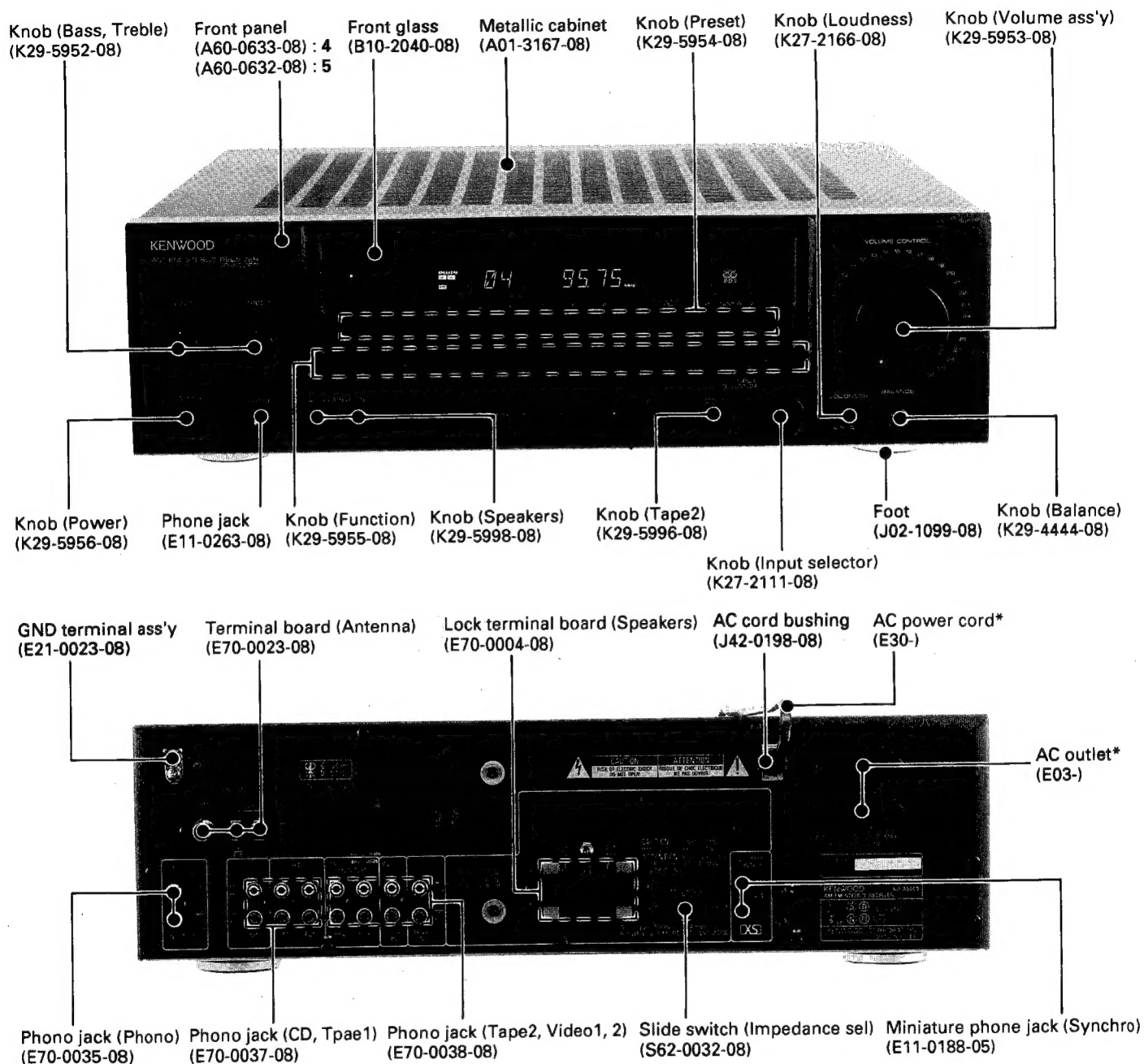


Photo is KR-A4060 (M type).

*Refer to parts list on page 35.

KR-A4060/A5060

EXTERNAL VIEW : KR-A5060



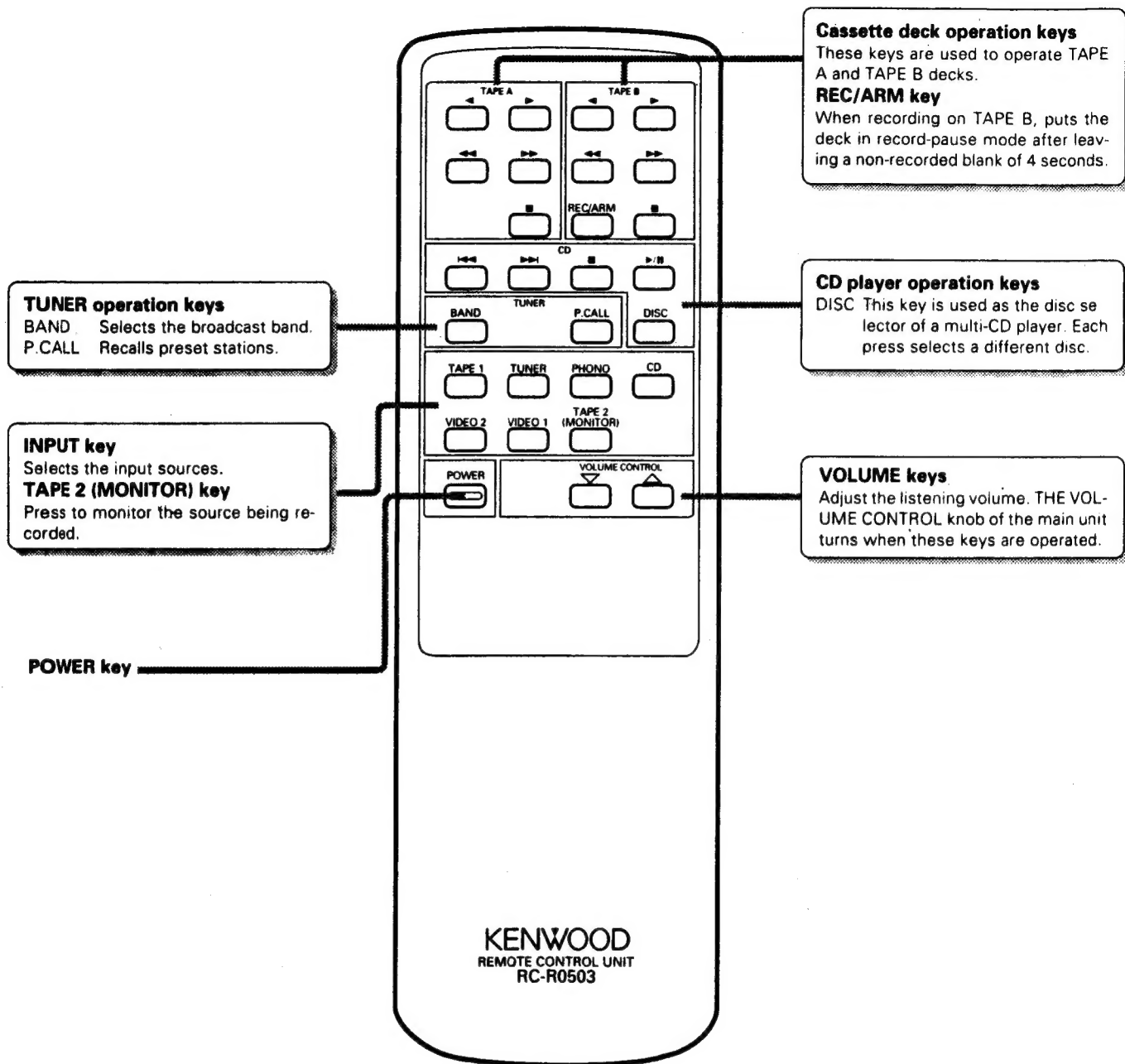
4 : KR-A4060
5 : KR-A5060

Photo

*Refer to parts list on page 83.

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REMOTE CONTROL OPERATION

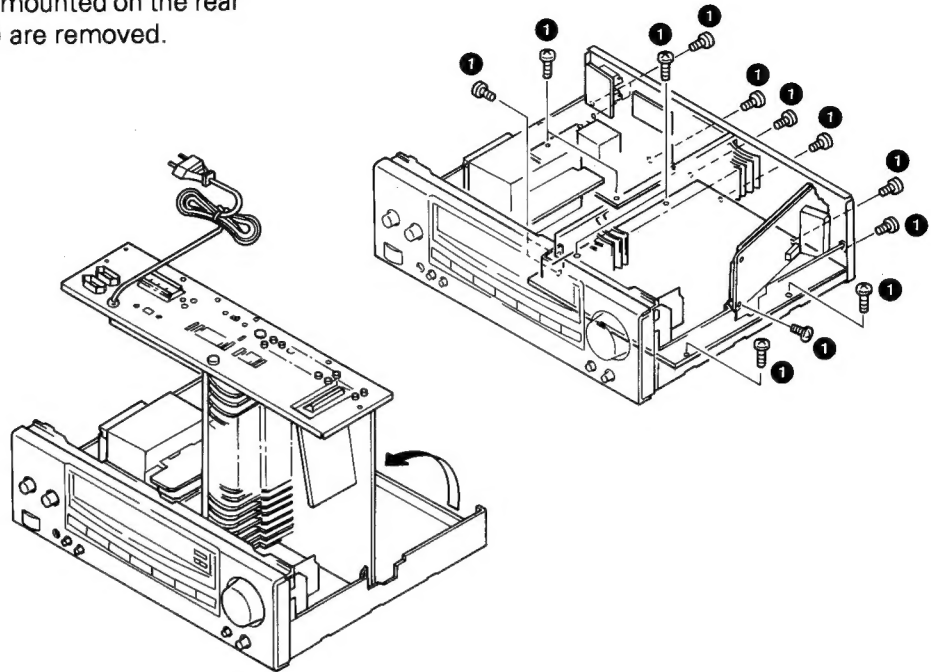


Model: RC-R0503
Infrared ray system

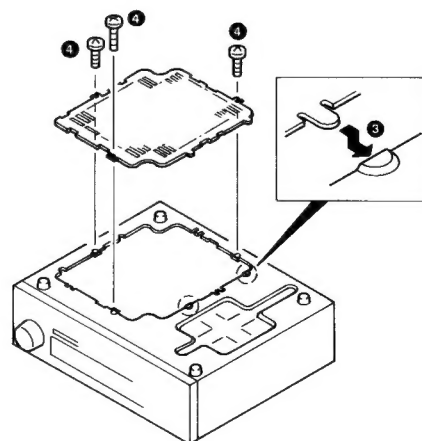
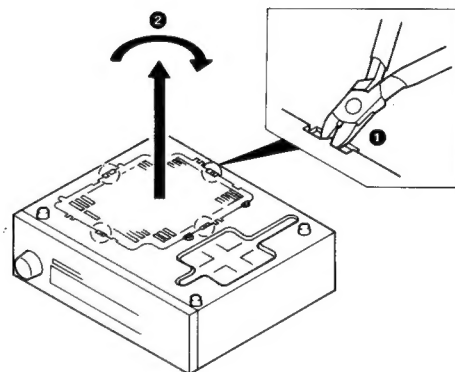
KR-A4060/A5060

DISASSEMBLY FOR REPAIR

1. Repair can be carried out with the Main (AUDIO) PCB and the power supply PCB mounted on the rear panel when the 17 screws (❶) are removed.



2. Cut the 4 places with a pair of nippers (❶), and remove the bottom panel from chassis.
3. Move the unit holder from the current position to the open mounting position.
4. Rotate the lid, which was cut off, by 180° degrees (❷).
5. Insert the lids in the 2 places of the chassis (❸), and mount them with the 3 screws (❹).



KR-A4060/A5060

CIRCUIT DESCRIPTION

1. Setting

1-1. Initial setting

• Function initial setting

Last channel memory FM : 87.5MHz
 K type AM : 530kHz
 E type AM : 531kHz
 Tuning mode Auto
 Band FM1
 Input selector Tuner
 VIDEO monitor VIDEO 1
 TAPE 2 monitor OFF
 Muting OFF
 Power OFF

Frequency memorized for each PRESET channel when the memory is cleared (Test frequency)

Band type	FM1 (MHz)		FM2 (MHz)		AM (kHz)	
	K	E	K	E	K	E
1ch	87.5	87.5	87.5	87.5	530	531
2ch	89.1	89.1	87.5	87.5	630	630
3ch	90.0	90.0	87.5	87.5	990	990
4ch	92.0	92.0	87.5	87.5	1440	1440
5ch	94.0	94.0	87.5	87.5	1610	1602
6ch	98.0	98.0	87.5	87.5	1700*	531
7ch	100.1	100.1	87.5	87.5	530	531
8ch	102.0	102.0	87.5	87.5	530	531
9ch	106.0	106.0	87.5	87.5	530	531
10ch	108.0	108.0	87.5	87.5	530	531

*1700kHz is set for WIDE only.

• μ -com output port initial setting

[Any figure in () is a pin number.]

POWER (24) "L"
 MUTE 1 (25) "H"
 MUTE 2 (26) "H"
 VRDOWN (1) "L"
 VRUP (63) "L"

The initial setting is performed in a following event

1. When backup memory data is destroyed when reset is applied to the μ -com.
2. When the power cord is plugged in to the AC wall outlet while pressing the TUNER key.

1-2. Test mode setting

• Method of entering the test mode

While pressing the CD key, plug the power cord to the AC wall outlet. When the test mode is entered, the FL tube display all lights up.

• Method of canceling the test mode

1. Unplug the power cord from the AC wall outlet once.
2. Send the reset signal to the RESET pin or some other means to reset the μ -com.

• Contents of test mode

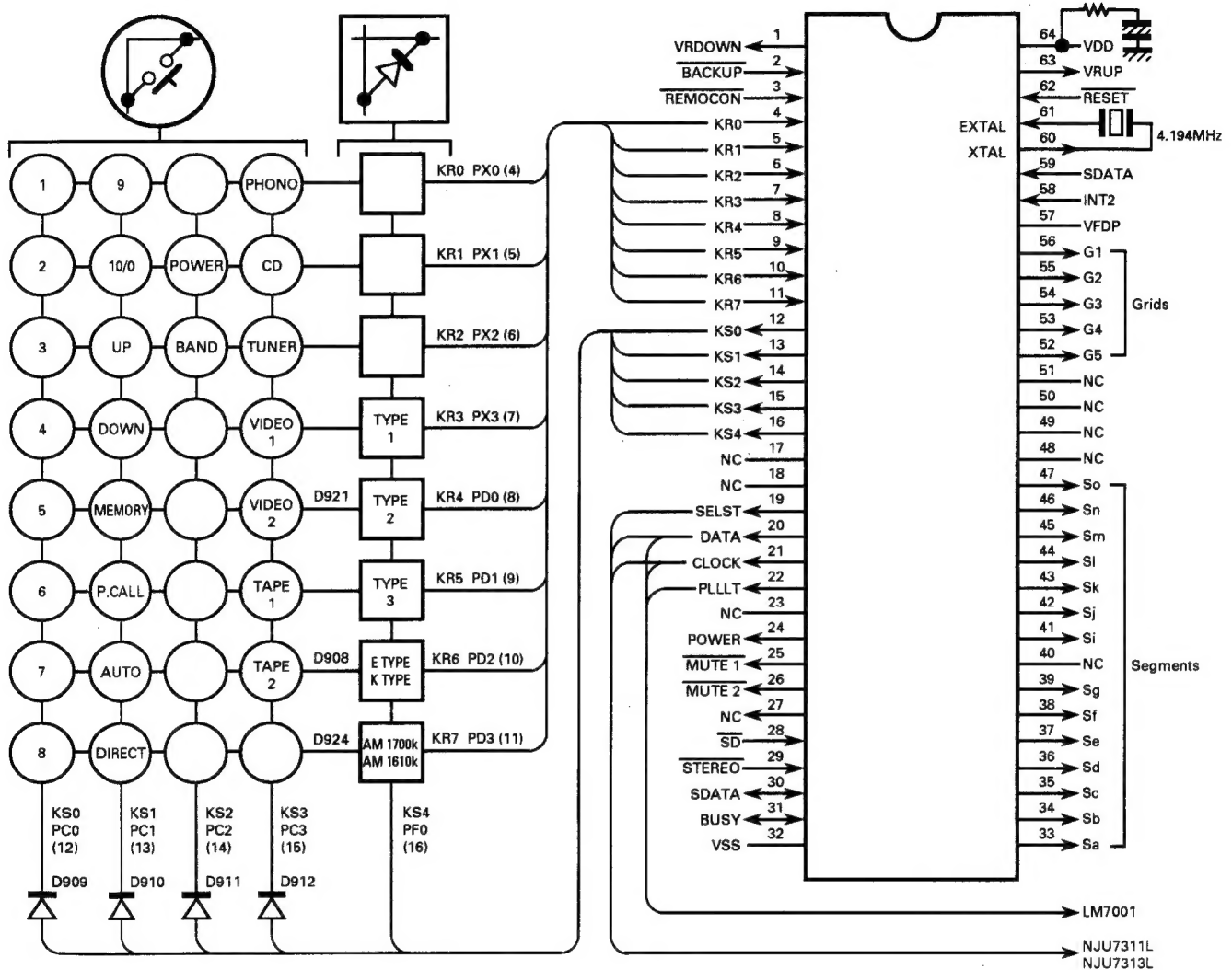
1. When the test mode is entered, the FL tube display all lights up. This all lighting continues unless a effective remote control serial code or the test mode is canceled.
2. The test frequency is stored in memory for each preset channel. (For each frequency to be stored in memory, refer to its associated listing.)
3. The test mode is different from the normal mode in the following operations :
 When the tuner UP or DOWN key is pressed when a mode other than TUNER has been selected, the potentiometer is increased or decreased.
 Once one of the these keys has been pressed, the operation continues even if the key is released.
 It stops automatically if the AUTO or POWER key is pressed or if the AUTO or POWER key is not pressed for 16 seconds.

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CIRCUIT DESCRIPTION

2. Receiver μ -com : CXP5016-531S (Front PCB : IC901)

2-1. Key matrix connection diagram



2-2. Setting of destinations, models and specifications depending upon diode key matrix

The setting of destinations, models and specifications is made according to the initial set diode key matrix. In the following, "1" means with diodes and "0" without diodes.

• Model set switch (Type 2 : D921)

Model set switch			MODEL	Function		
Type 1	Type 2	Type 3		TUNER band	VOL.CONT with motor	REMOCON
—	1	0	KR-A4060/A5060	FM1→FM2→AM	Provided	Provided

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CIRCUIT DESCRIPTION

• Destination set switch : E/K type (D908 to Q903)

Destination set switch	Destination	BAND	Reception frequency band	Channel space	Reference frequency
0	K	FM	87.5~108.0MHz	100kHz	50kHz
		AM	530~1610kHz	10kHz	10kHz
		AM	530~1700kHz	10kHz	10kHz
1	E	FM	87.5~108.0MHz	50kHz	50kHz
		AM	531~1602kHz	9kHz	9kHz

• Specification set switch :

AM 1700k/AM 1610k (D924)

With destination set switch at "0" :

Effective only for K type

Specification set switch	AM reception frequency band
0	530~1610kHz
1	530~1700kHz

2-3. Pin function

No.	Name	I/O	Function
1	VRDOWN	O	Volume down operation control. ("H" : Down, "L" : Normal state)
2	BACKUP	I	Backup (AC outlet OFF) detection. ("H" : Normal state, "L" : AC outlet off)
3	REMOCON	I	Remocon signal input. (Active "L")
4~7	KR0~KR3	I	Key return signal input. ("H" : There is input, "L" : There is not input)
8~11	KR4~KR7		
12~16	KS0~KS4	O	Key scan signal output. Normally high is output. Key scan is performed when key is ON.
17, 18	NC	O	Not used.
19	SELST	O	Data latch signal output to NJU7311L/NJU7313L. Data is latched on the rising edge.
20	DATA	O	LM7001 (PLL IC), NJU7311L/NJU7313L (selector IC) control serial data output. Data is latched on the rising edge of the clock.
21	CLOCK		LM7001, NJU7311L/NJU7313L control serial data transfer shift clock output. Data is latched on the rising edge of the clock.
22	PLLLT	O	CE signal output to LM7001. When the signal is high, LM7001 is enable.
23	NC	-	Not used.
24	POWER	O	Power supply circuit relay ON/OFF control. ("H" : ON, "L" : OFF)
25	MUTE1	O	TAPE 2 REC OUT mute control. ("H" : MUTE OFF, "L" : MUTE ON)
26	MUTE2	O	LINE OUT mute control. ("H" : MUTE OFF, "L" : MUTE ON)
27	NC	O	Not used.
28	SD	I	Tuner tuned detection. ("H" : No signal, "L" : Tuned)
29	STEREO	I	Tuner FM stereo detection. ("H" : MONO, "L" : STEREO)
30	SDATA	I/O	This pin and serial data pin 59 are shorted.
31	BUSY	I/O	Serial busy signal input/output.
32	Vss	-	GND
33~47	Sa~So	O	Fluorescent display segment drive signal output. (Pin 40 muted)
48~51	-	O	Not used.
52~56	G5~G1	O	Fluorescent display digit drive signal output.
57	VFDP	-	Fluorescent display output driver circuit power supply.
58	INT2	I	Not used. This pin and GND are shorted.
59	SDATA	I	This pin and serial data input pin 30 are shorted.
60	XTAL	O	Clock generation circuit output pin.
61	EXTAL	I	Clock generation circuit input pin.
62	RESET	I	Reset signal input.
63	VRUP	O	Volume up operation control. ("H" : UP, "L" : Normal state)
64	VDD	-	+5V power supply.

EXCEPT

KR-A4060/A5060

CIRCUIT DESCRIPTION

3. Function description

Features

3-1. AMP

- Seven position selector :
CD, TUNER, PHONO, TAPE1, TAPE2, VIDEO1, VIDEO2
- Six audio output terminals :
CD, PHONO, TAPE1, TAPE2, VIDEO1, VIDEO2
- Tree output terminals :
TAPE1, TAPE2
- LINE STRAIGHT

- Speaker A/B change-over
- TAPE2 monitor

3-2. TUNER

- 20ch random preset
- Tuning control by IF count
- Direct selection
- RDS function (E, T type only)

4. Conditions according to the destination and model

4-1. AMP

MODEL	DIODE SW		Surround function
	5	4	
KR-V7050	0	0	PRO-LOGIC, 3-STEREO, DSP, DSP-LOGIC
KR-V6050 (Except E, T only)	0	1	PRO-LOGIC, 3-STEREO
KR-A4060/A5060 (E, T only)	1	X	No surround

X : Don't care

4-2. TUNER

Destination	DIODE SW				Band	Receiving Remarks	Channel space	IF	RF	Note
	3	2	1	0						
K1	0	0	0	0	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	50kHz	
					AM	530kHz~1610kHz	10kHz	+450kHz	10kHz	
K2	0	0	1	0	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	50kHz	
					AM	530kHz~1700kHz	10kHz	+450kHz	10kHz	
E	0	1	0	0	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	50kHz	
					AM	531kHz~1602kHz	9kHz	+450kHz	9kHz	
E	1	1	0	0	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	50kHz	With RDS
					AM	531kHz~1602kHz	9kHz	+450kHz	9kHz	

4-3. Diode matrix : Diode switch No.

	Pin No.	55	56	57	58	59	60
Pin No.	Pin name	KR5	KR4	KR3	KR2	KR1	KR0
61	KS7	Channel space	AM 1610/1700	RDS Yes/No	DSP.DOL/DOL only	Surround Yes/No	(X)
Diode switch No.		2	1	3	4	5	0
Diode Ref. No.		D911	-	D910	-	D909	-

- Diode SW 0→
- Diode SW 1→ AM band range/Except E, T type only
0 : AM NARROW
1 : AM WIDE
- Diode SW 2→ Channel base
(Products bound for M : Change-over with switch)
0 : FM 100kHz/step, AM 10kHz/step
1 : FM 50kHz/step, AM 9kHz/step

- Diode SW 3→With/Without RDS/E, T type only
0 : Without RDS
1 : With RDS
- Diode SW 4→Surround mode
0 : Dolby function & DSP function
1 : Dolby function only
- Diode SW 5→With/Without surround
0 : With surround
1 : Without surround

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CIRCUIT DESCRIPTION

5. Initial state

① POWER OFF

② AMP system

- Audio selector TUNER
- Video system selector VIDEO 1
- Speaker A ON
- Speaker B OFF
- TAPE 2 monitor OFF
- LINE STARIGHT OFF

③ TUNER system

- Band FM
- Frequency Lower limit of FM (87.5MHz)
- TUNING mode AUTO TUNING (AUTO STEREO)
- P.CH indication - -ch

④ Test frequency

	K1 type	K2 type	E type
01ch	FM 98.00MHz	FM 98.00MHz	FM 98.00MHz
02ch	FM108.00MHz	FM108.00MHz	FM108.00MHz
03ch	AM 630 kHz	AM 630 kHz	AM 630 kHz
04ch	AM 990 kHz	AM 990 kHz	AM 990 kHz
05ch	AM 1440 kHz	AM 1440 kHz	AM 1440 kHz
06ch	AM 1610 kHz	AM 1700 kHz	AM 1602 kHz
07ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
08ch	FM 98.50MHz	FM 98.50MHz	FM 98.50MHz
09ch	AM 530 kHz	AM 530 kHz	AM 531 kHz
10ch	FM 89.10MHz	FM 89.10MHz	FM 89.10MHz
11ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
12ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
13ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
14ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
15ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
16ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
17ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
18ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
19ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz
20ch	FM 87.50MHz	FM 87.50MHz	FM 87.50MHz

Initial setting Insert the AC power cord plug in the electrical outlet while pushing the "POWER" key.

KR-A4060/A5060

CIRCUIT DESCRIPTION

6. Main Unit Test Mode

Setting method

Turn the AC power ON while pushing the "TUNING DOWN" key.

Cancellation method

Turn the AC power OFF.

Contents

① Start of the main unit test mode

The operation gets in the test mode through a main unit key, when the AC power is turned ON while pushing the "TUNING DOWN" key.

Three operations are carried out in this case.

- Automatic power ON
- All fluorescent character display tubes and LED light up.
- Initialization of all states except POWER ON/OFF.
The "All indications lit up" states is cancelled by pushing any key of the main unit.
The states changed during the test mode are initialized when the main unit test mode is cancelled (AC power OFF).

② Automatic motor VR UP/DOWN (AMP)

The operation (16 sec. UP→16 sec. DOWN→STOP) of the motor is carried out when the "TAPE 2" key is operated. Therefore, "TAPE 2 (MONITOR)" can not be changed-over during the main unit test mode.

③ Mute signal output (AMP)

No control of selector MUTE (MUTE1) is carried out.

④ Test mode operation of 0~9, +10 (TUNER)

- a) When the +10 key is not operated, the channels 1~9 (keys 1~9), as well as the channel 10 (key 0), can be called.
- b) When the +10 key is operated once, the channels 11~19 (keys 1~9), as well as the channel 20 (key 0), can be called.
- c) When the +10 key is operated once again, the operation returns to the case "a) When the +10 key is not operated".

⑤ Processing of keys available only in the remote controller

- Processing related to the AMP : None
- Processing related to the TUNER : None

⑥ Cancellation of the main unit test mode

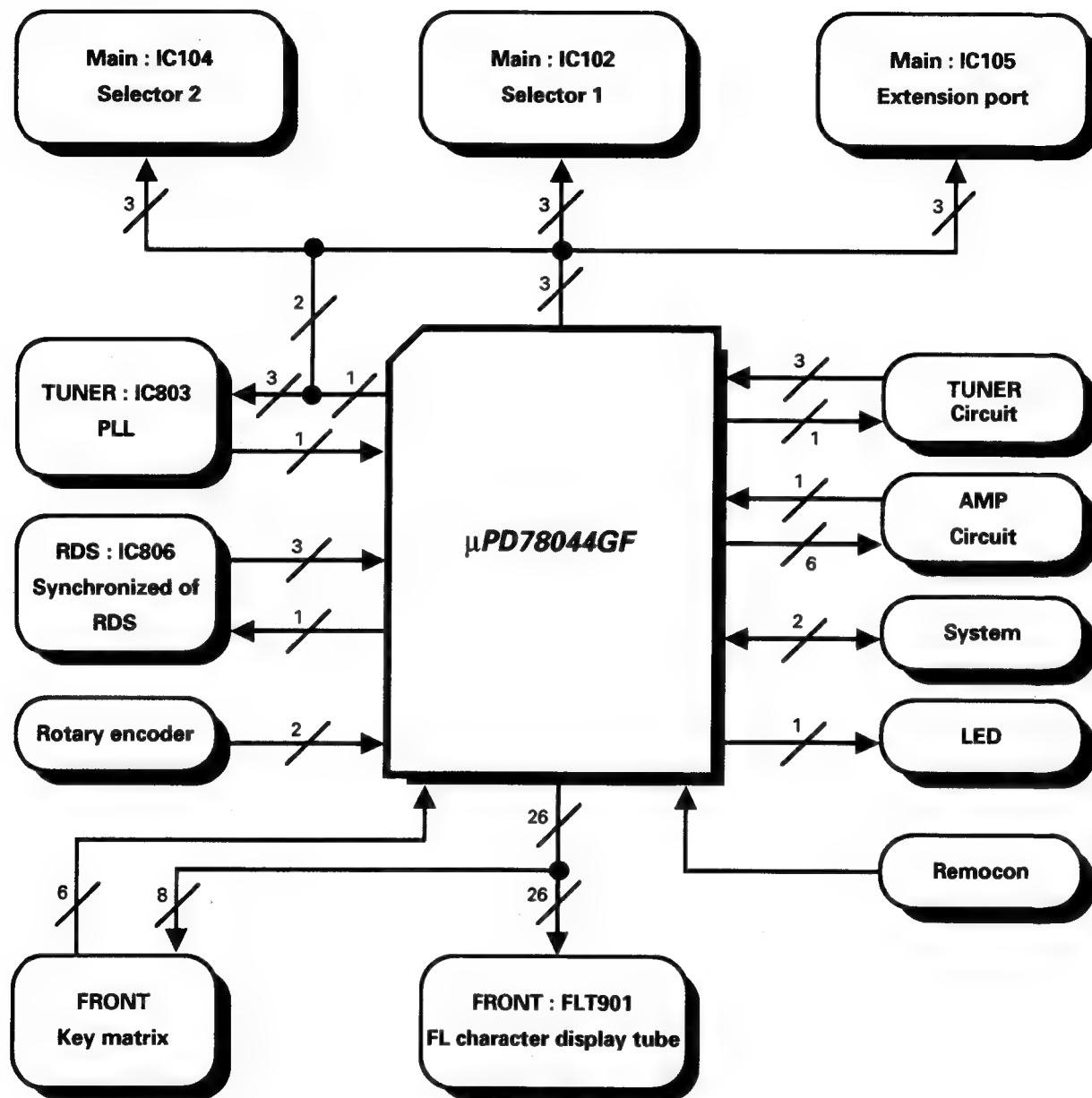
The test mode is cancelled, and the operation returns to the initial state when the AC power is turned OFF during the test mode.

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CIRCUIT DESCRIPTION

7. μ -com : μ PD78044GF-021 (Front PCB : IC901)

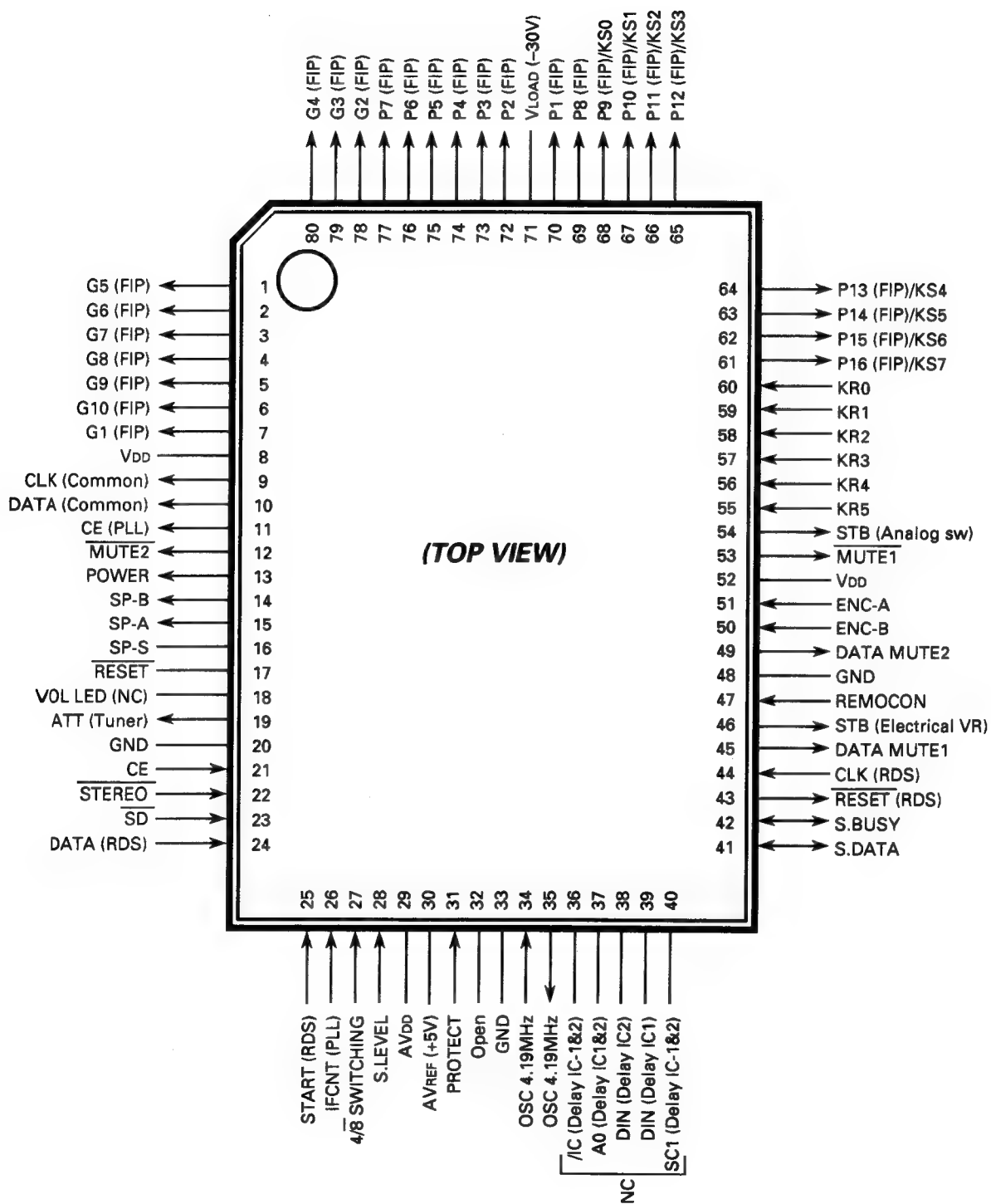
7-1. μ -com periphery block diagram



KR-A4060/A5060

CIRCUIT DESCRIPTION

7-2. Pin connection



KR-A4060/A5060

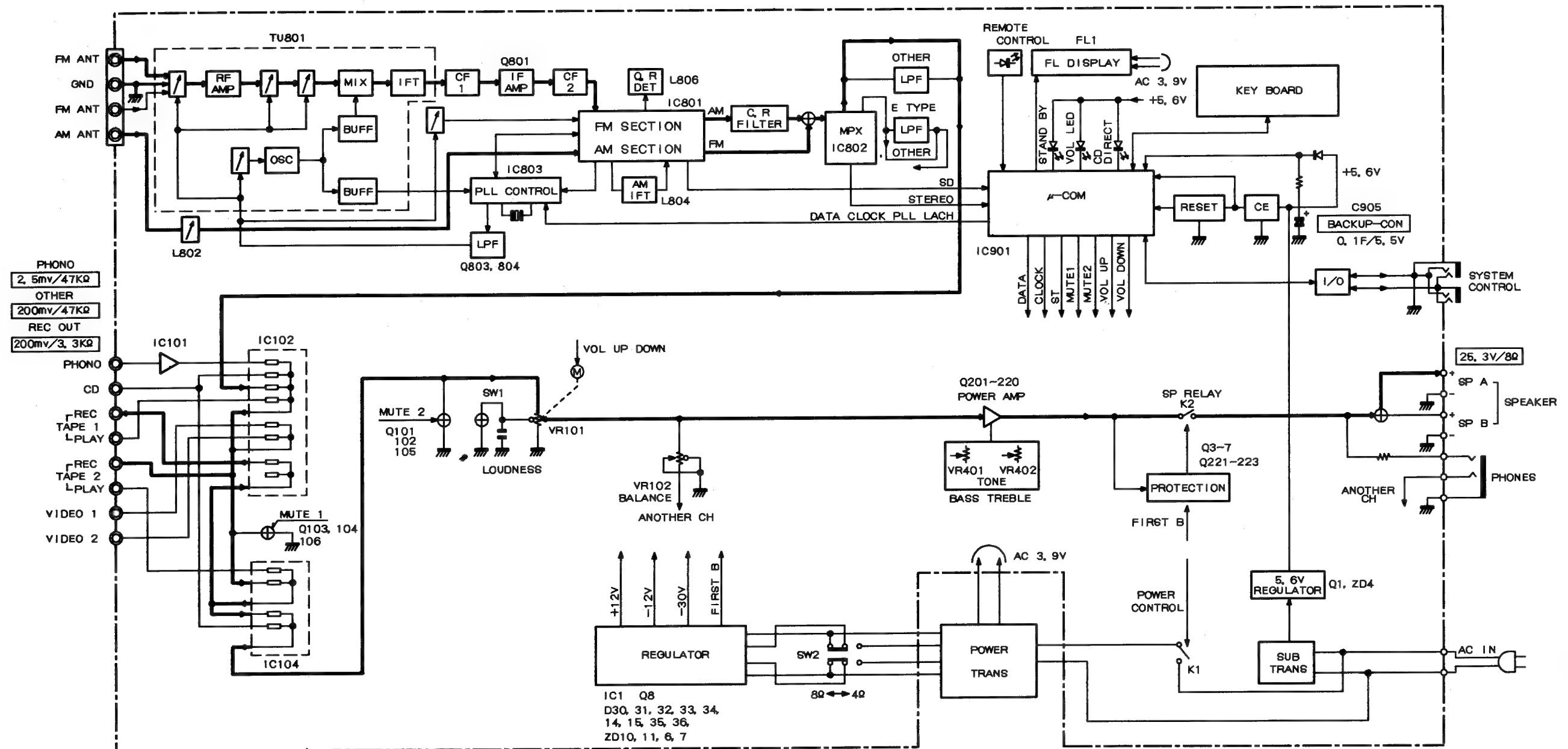
CIRCUIT DESCRIPTION

7-3. Pin function

No.	Name	I/O	Function
1~6, 7	G5~G10, G1	O	FL grid 5~10, and 1.
8	VDD	-	Power supply.
9	CLK (Common)	O	Clock for control IC. (Analog sw/PLL IC/Electronic VOL)
10	DATA (Common)	O	Data for control IC. (Analog sw/PLL IC/Electronic VOL)
11	CE (PLL)	O	PLL CE.
12	MUTE2	O	Amplifier mute control. ("H" : Mute OFF, "L" : Mute ON)
13	POWER	O	Power relay control. ("H" : Power ON, "L" : Power OFF)
14	SP-B	O	Speaker B relay control. ("H" : SP-B ON, "L" : SP-B OFF)
15	SP-A	O	Speaker A relay control. ("H" : SP-A ON, "L" : SP-A OFF)
16	SP-S	-	Not used (open).
17	RESET	I	μ-com reset.
18	VOL LED	-	Not used (open).
19	ATT (Tuner)	O	Attenuator control ("H" : ATT ON, "L" : ATT OFF)
20	GND	-	A/D power supply.
21	CE	I	μ-com CE.
22	STEREO	I	Stereo signal detection. ("H" : Monaural, "L" : Stereo)
23	SD	I	Tuning signal detection. ("H" : Not tuned, "L" : Tuned)
24	DATA (RDS)	I	RDS data.
25	START (RDS)	I	RDS start bit.
26	IFCNT (PLL)	I	IF CNT data (PLL DO).
27	4/8 SWITCHING	I	Speaker impedance switching. ("H" : 4Ω, "L" : 8Ω)
28	S.LEVEL	I	Signal level (A/D).
29	AVDD	-	A/D power supply.
30	AVREF	-	A/D reference voltage (+5V).
31	PROTECT	I	Protection detection. ("H" : Protection, "L" : Normal)
32	NC	-	Open.
33	Vss	-	GND
34	X1	I	4.19MHz oscillator.
35	X2	O	4.19MHz oscillator.
36	/IC (DELAY IC-1 & 2)	-	Not used.
37	A0 (DELAY IC-1 & 2)	-	Not used.
38	DIN (DELAY IC-1)	-	Not used.
39	DIN (DELAY IC-2)	-	Not used.
40	SC1 (DELAY IC-1 & 2)	-	Not used.
41	S.DATA	I/O	8-bit system data.
42	S. BUSY	I/O	8-bit system busy.
43	RESET (RDS)	O	RDS reset.
44	CLK (RDS)	I	RDS clock.
45	DT MUTE1	O	Data mute 1. ("H" : ON, "L" : OFF)
46	STB (Electrical VOL)	-	Not used.
47	REMOCON	I	Remote controller input.
48	GND	-	
49	DT MUTE2	-	Not used.
50, 51	ENC-B, ENC-A	I	Encoder input. (50 pin : Encoder B, 51 pin : Encoder A)
52	VDD	-	Power supply.
53	MUTE1	O	Selector MUTE control. ("H" : MUTE OFF, "L" : MUTE ON)
54	STB (Analog sw)	O	Analog sw STB.
55~60	KR5~KR0	I	Key return 5~0. (Pin 56 : Not used)
61~68	P16/KS7~P9/KS0	O	FL segment 16~9 / Key scan 7~0.
69, 70	P8, P1	O	FL segment. (69 pin : Segment 8, 70 pin : Segment 1)
71	-30V (VLOAD)	-	FL drive power supply.
72~77	P2~P7	O	FL segment 2~7.
78~80	G2~G4	O	FL grid 2~4.

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BLOCK DIAGRAM



ADJUSTMENT

AJUSTES

AM section : If alignment point is "-", confirm the value. If not, replace the front end pack.

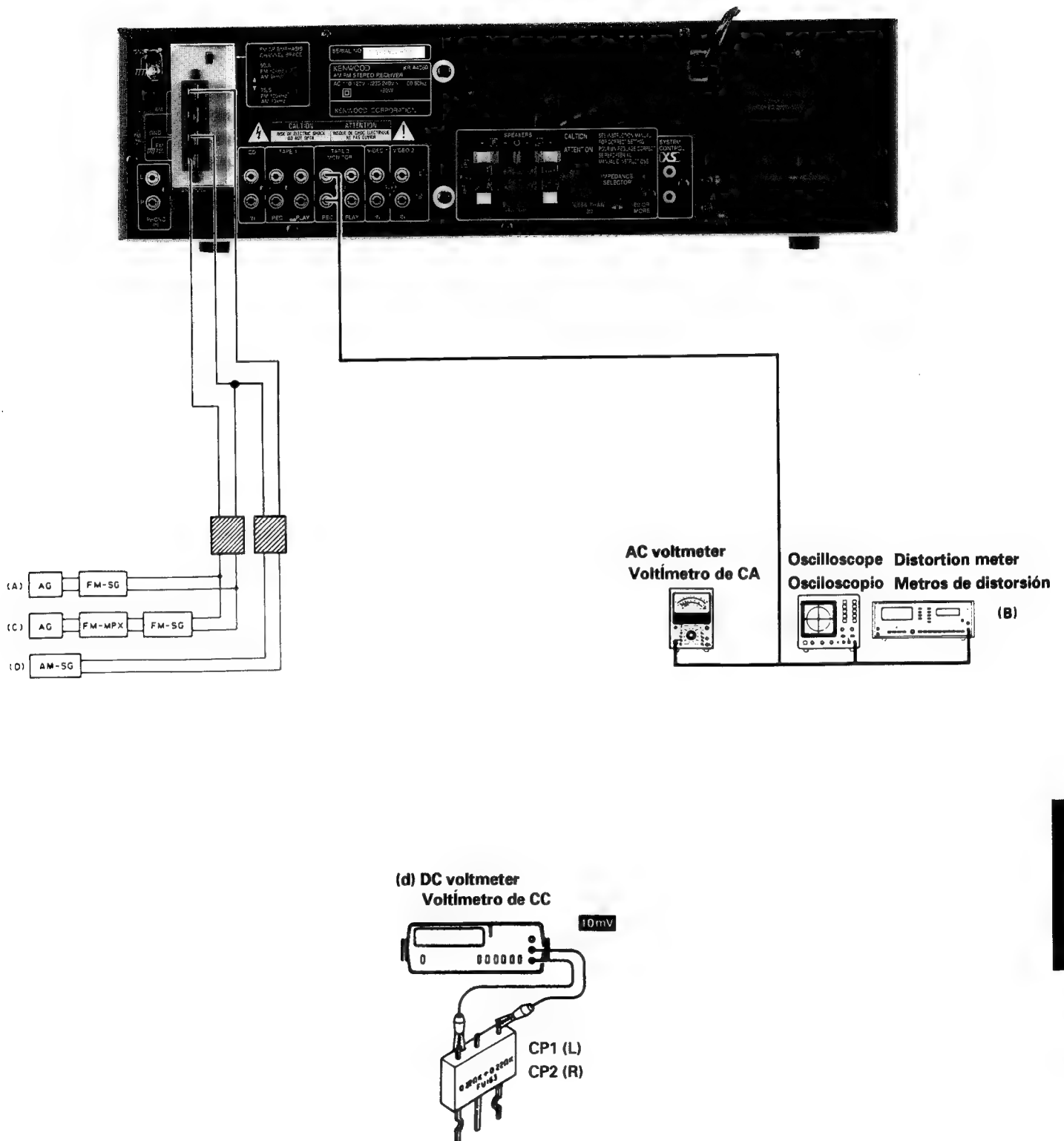
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION SELECTOR : FM							
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±75kHz dev. 60dBμ(ANT. input)	Connect a DC voltmeter between TP803 and TP804. (TUNER UNIT)	AUTO or MONO 98.0MHz	L806 (TUNER UNIT)	0V.	(a)
2	VCO	(A) 98.0MHz 0 dev. 60dBμ(ANT. input)	Connect a Frequency counter between TP805 and TP806. (TUNER UNIT)	AUTO 98.0MHz	L802 (TUNER UNIT)	19.00kHz	(b)
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev. Selector : L or R Pilot : ±6.75kHz dev. 60dBμ(ANT. input)	(B)	98.0MHz	IFT (W02-)	Minimum distortion. (L or R)	
4	TUNING LEVEL	(A) 98.0MHz 0 dev. 18dBμ(ANT. input)	(B)	AUTO or MONO 98.0MHz	VR801 (TUNER UNIT)	Adjust VR801 and stop at the point where FLT901 (TUNED) goes on.	
AM SECTION SELECTOR : AM							
(1)	TUNING LEVEL	(D) 1000 (999) kHz 26dBμ(ANT. input)	(B)	—	VR804 (TUNER UNIT)	Adjust VR804 and stop at the point where FLT901 (TUNED) goes on.	
AUDIO SECTION							
<1>	IDLE CURRENT	—	Connect a DC voltmeter across CP1 (L), CP2 (R) (MAIN UNIT)	Volume : 0	VR201 (L) VR202 (R) (AUDIO UNIT)	10mV	(d)

Sección de AM : Si el punto de alineación es "-", confirme el valor. Si no, reemplace el paquete de entrada.

Núm.	ÍTEM	AJUSTES DE ENTRADA	AJUSTES DE SALIDA	AJUSTES DEL SINTONIZADOR	PUNTOS DE ALINEACIÓN	ALINEACIÓN PARA	FIG.
SECCIÓN DE FM SELECTOR : FM							
1	DISCRIMINADOR	(A) 98.0MHz 1kHz, ±75kHz dev. 60dBμ(Entrada de antena)	Conecte un voltímetro de CC entre TP803 y TP804. (UNIDAD DEL SINTONIZADOR)	AUTO o MONO 98.0MHz	L806 (UNIDAD DEL SINTONIZADOR)	0V.	(a)
2	VCO	(A) 98.0MHz 0 dev. 60dBμ(Entrada de antena)	Conecte un Frecuencímetro entre TP805 y TP806. (UNIDAD DEL SINTONIZADOR)	AUTO 98.0MHz	L802 (UNIDAD DEL SINTONIZADOR)	19.00kHz	(b)
3	DISTORSIÓN (ESTÉREO)	(C) 98.0MHz 1kHz, ±68.25kHz dev. Selector : L or R Pilot : ±6.75kHz dev. 60dBμ(Entrada de antena)	(B)	98.0MHz	IFT (W02-)	Distorsión mínima. (L o R)	
4	NIVEL DE SINTONÍA	(A) 98.0MHz 0 dev. 18dBμ(Entrada de antena)	(B)	AUTO o MONO 98.0MHz	VR801 (UNIDAD DEL SINTONIZADOR)	Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
SECCIÓN DE AM SELECTOR : AM							
(1)	NIVEL DE SINTONÍA	(D) 1000 (999) kHz 26dBμ(Entrada de antena)	(B)	—	VR804 (UNIDAD DEL SINTONIZADOR)	Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO).	
SECCIÓN DE AUDIO							
<1>	CORRIENTE EN REPOSO	—	Conecte un voltímetro de CC entre CP1 (L) y CP2 (R) (UNIDAD PRINCIPAL)	Volumen : 0	VR201 (L) VR202 (R) (UNIDAD AUDIO)	10mV	(d)

ADJUSTMENT/AJUSTES

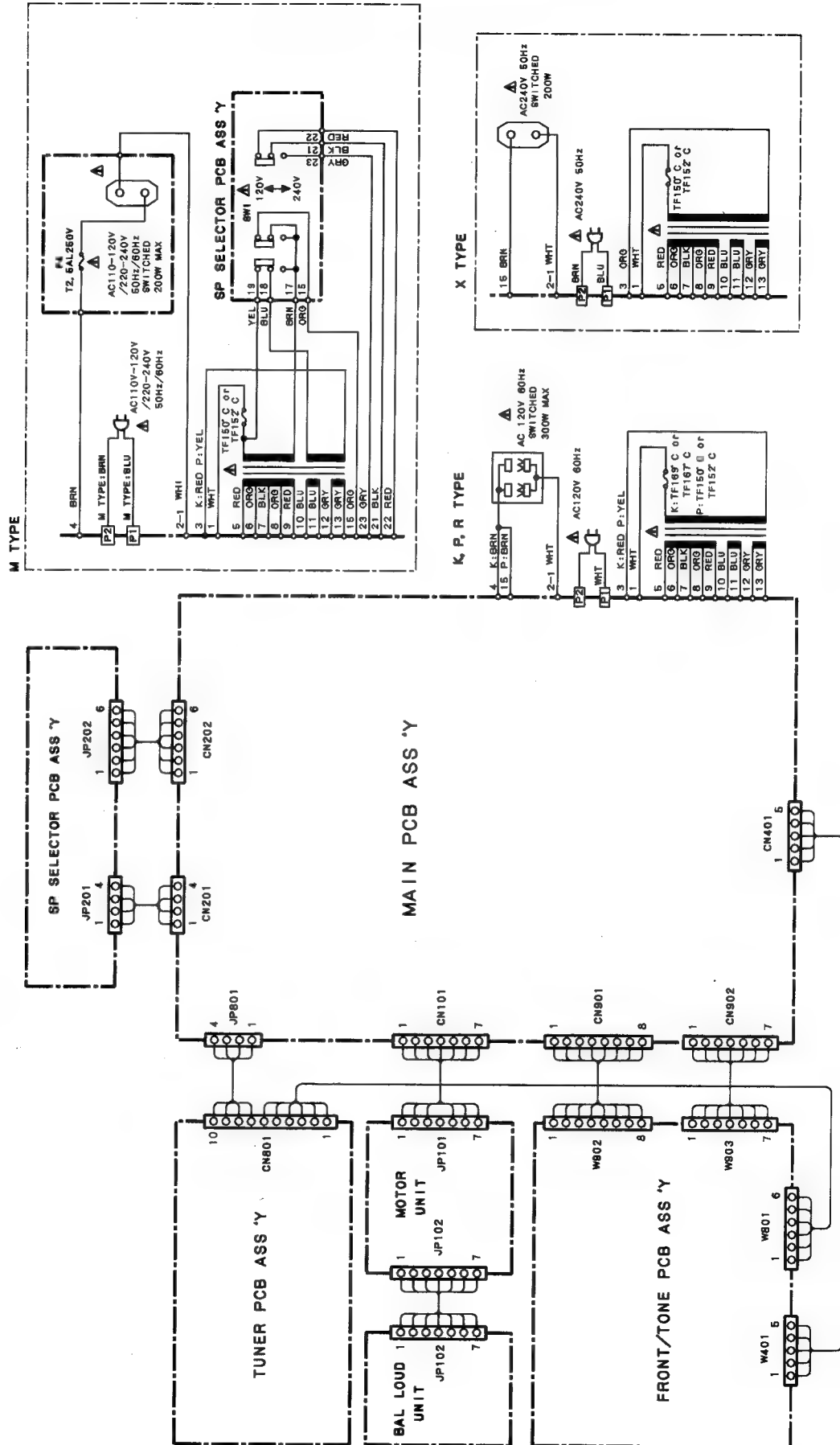
SYSTEM CONNECTIONS/CONEXIONES DEL SISTEMA



EXCEPT E.T.

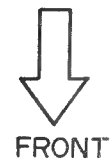
KR-A4060

WIRING DIAGRAM



EXCEPT E, J

4



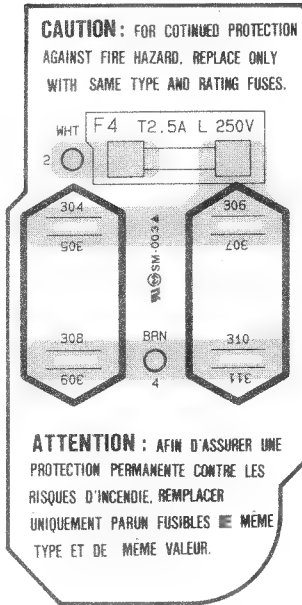
BALANCE
L R

22

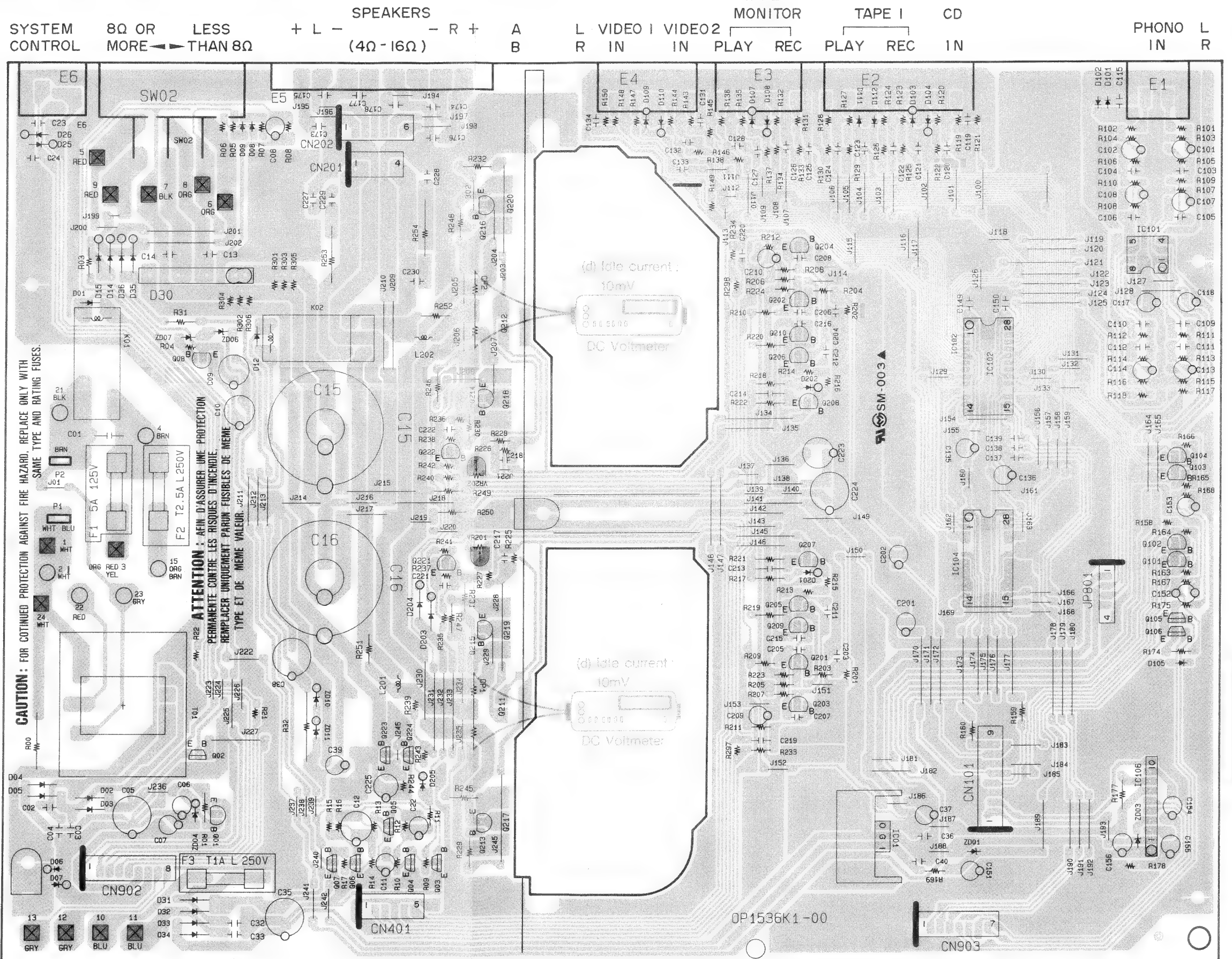
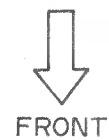
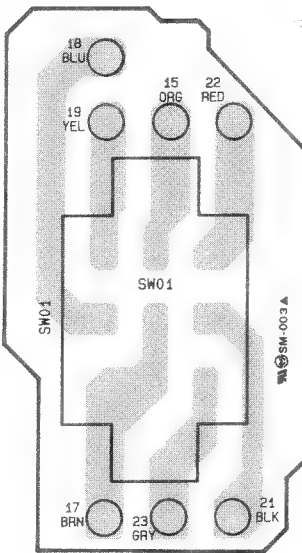
EXCEPT ET

PC BOARD (COMPONENT SIDE VIEW) : KR-A4060

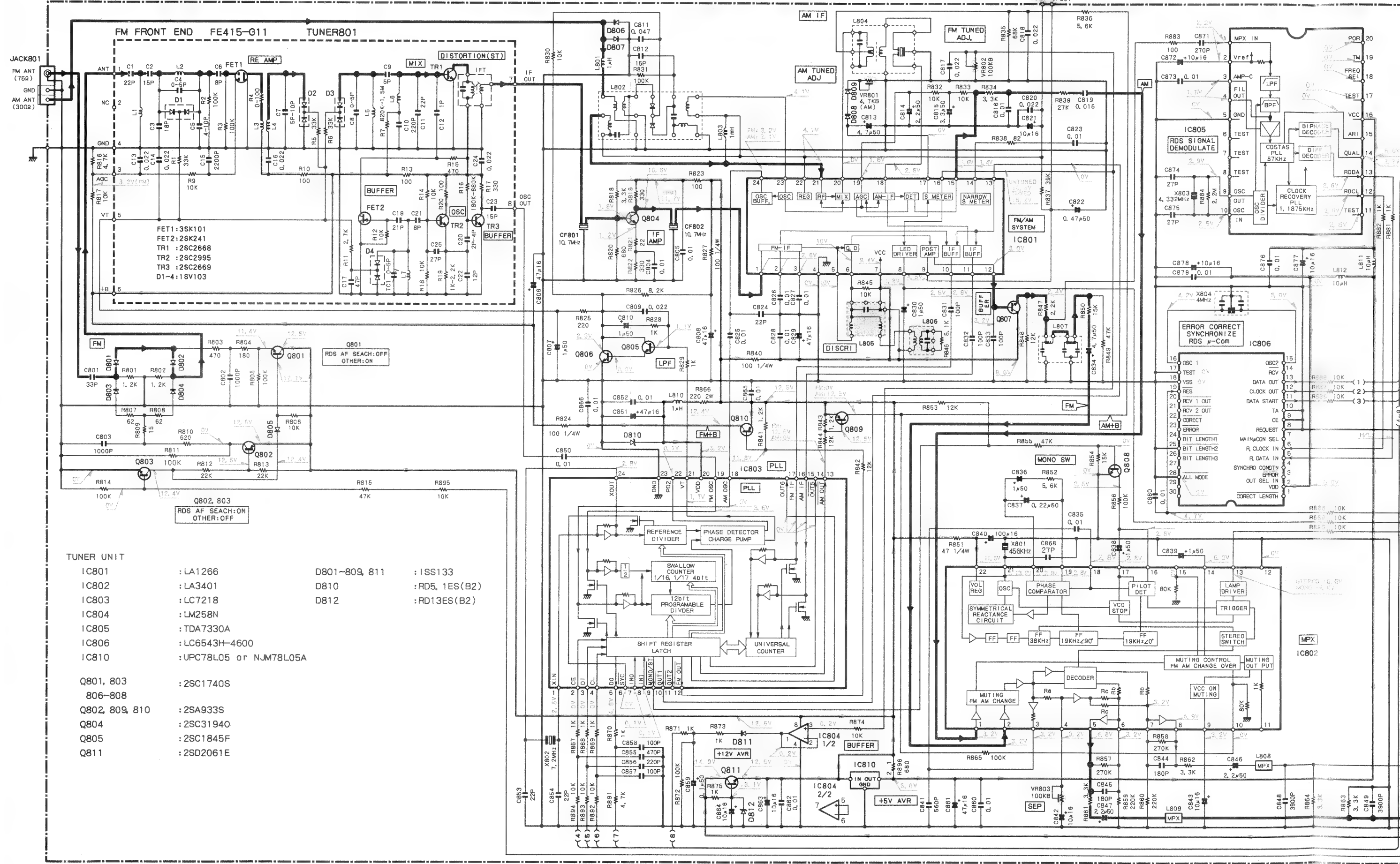
AC110-120V~ / 220-240V~
50/60Hz
SWITCHED 200W MAX.

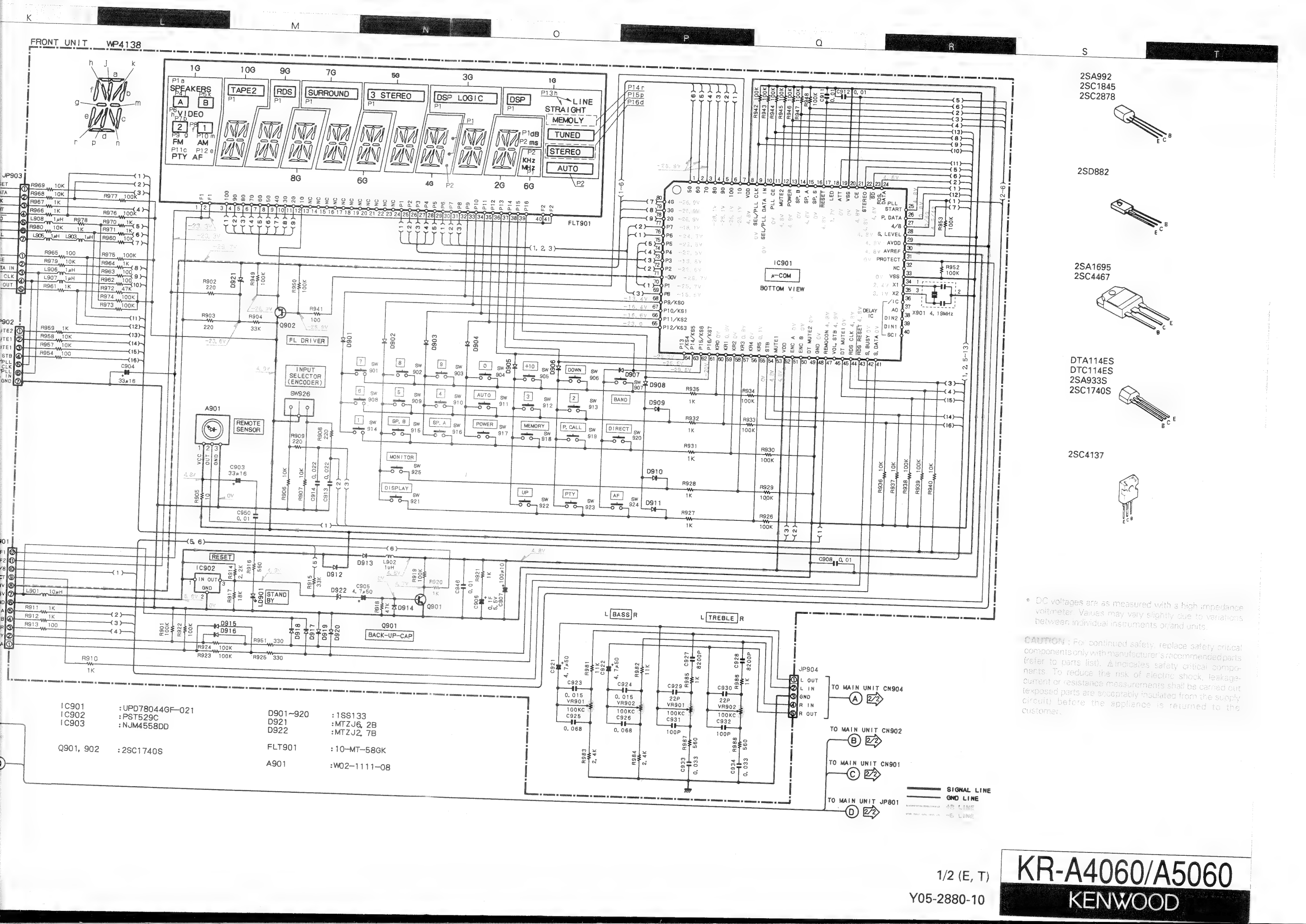


AC110-120V~ AC220-240V~



TUNER UNIT WP4140K1





2SA992
2SC1845
2SC2878

2SD882

2SA1695
2SC4467

DTA114ES
DTC114ES
2SA933S
2SC1740S

2SC4137

* DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or units.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). A indicates safety critical components. To reduce the risk of electric shock, leakage current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

1/2 (E, T)

Y05-2880-10

KR-A4060/A5060
KENWOOD

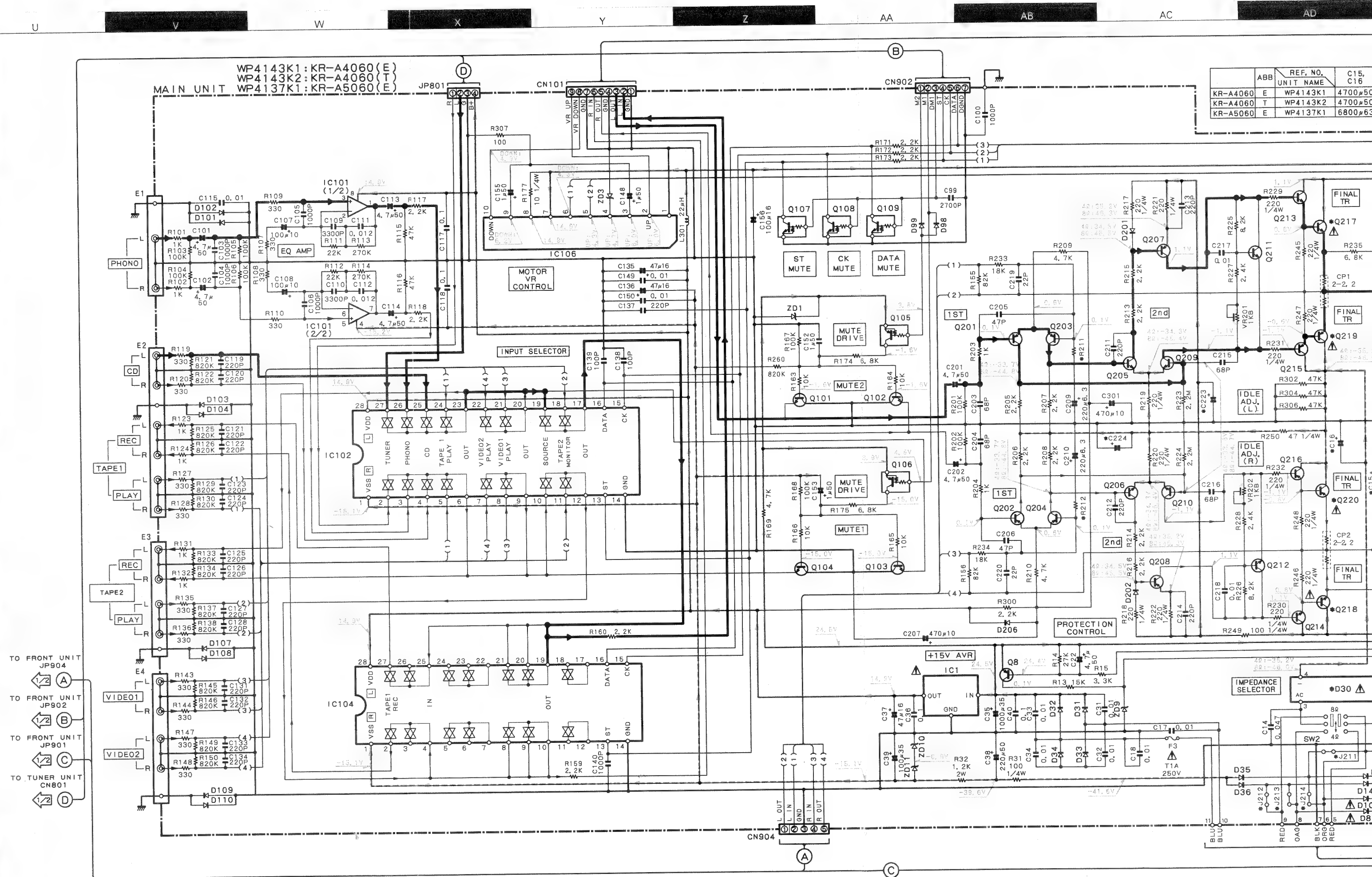
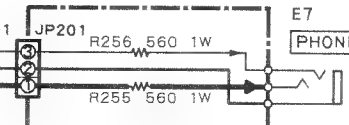
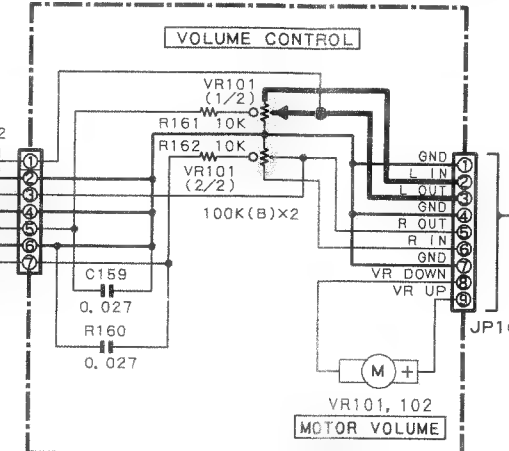
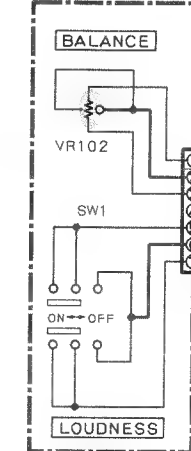
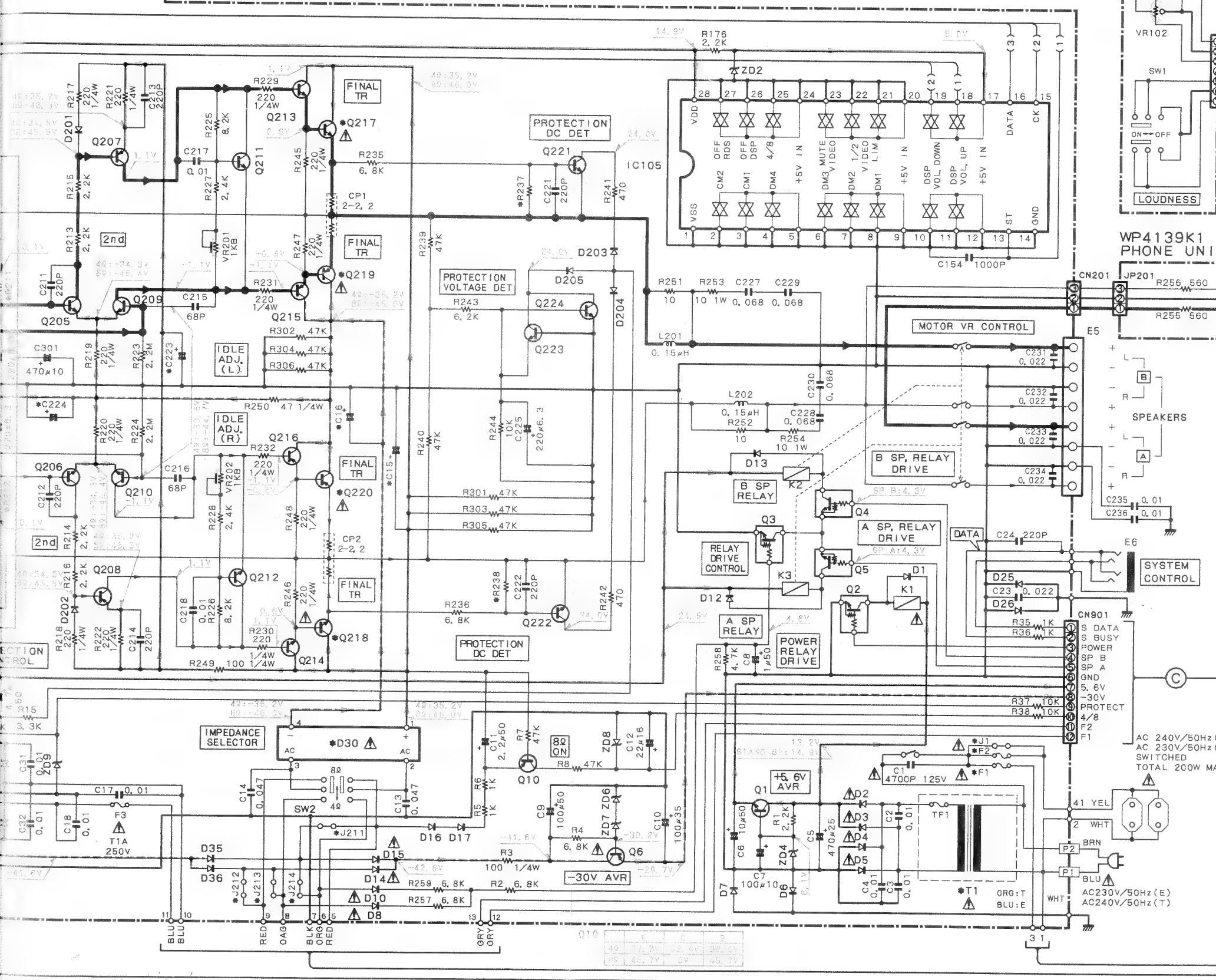


	ABB	REF. NO. UNIT NAME	C15, C16	C223	C224	D30	F1	F2	R211, R212	R237, R238	Q217, Q218	Q219, Q220	J211, J212	J213, J214	T1
KR-A4060	E	WP4143K1	4700#50	47#50	100#50	DBF40C	T1, 6A/250V	T2, 5A/250V	820	2, 7K	2SC4467	2SA1694	YES	NO	L07-0828-08
KR-A4060	T	WP4143K2	4700#50	47#50	100#50	DBF40C	T1, 6A/250V	J1	820	2, 7K	2SC4467	2SA1694	YES	NO	L07-0825-08
KR-A5060	E	WP4137K1	6800#63	47#63	100#63	DBF60C	T2A/250V	T2, 5A/250V	680	2, 2K	2SC4468	2SA1695	NO	YES	L07-0828-08

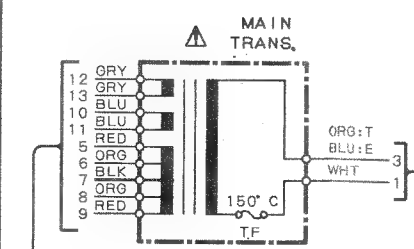



- ```
IC1 :MC7815C
IC101 :NJM4558DD
IC102 :TC9164N or NJU7313L
IC104 :TC9162N or NJU7311L
IC105 :TC9163N or NJU7312AL
IC106 :BA6209N
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- |                 |   |                   |
|-----------------|---|-------------------|
| Q1              | : | 2SD882            |
| Q2-5, 107-109   | : | DTC114ES          |
| Q6, 215, 216    | : | 2SA916 or 2SA1274 |
| Q8, 10          | : | 2SA933S           |
| Q101-104        | : | 2SC2878           |
| Q105, 106       | : | DTA114ES          |
| Q201-204,       | : | 2SA992            |
| 207, 208        |   |                   |
| Q205, 206, 209, | : | 2SC1845           |
| 210, 221, 222   |   |                   |
| Q211, 212       | : | 2SC4137(V)        |
| Q213, 214       | : | 2SC2316           |
| Q219, 220       | : | ★                 |
| Q223, 224       | : | 2SC1740S          |
| Q217, 218       | : | ★                 |

- D1, 6-8, 10, 12, 13, :ISS133  
16, 17, 25, 26, 98, 99,  
101-104, 107-110,  
201, 202, 205, 206  
D2-5, 14, 15, 31-36 :IN4002A  
203, 204  
D30 : \*

- |              |               |
|--------------|---------------|
| ZD1          | :MTZJ3, 9B    |
| ZD2, 3, 8, 9 | :MTZJ5, 1B    |
| ZD4          | :RD6, 2ES(B2) |
| ZD6, 7       | :MTZJ16A      |
| ZD10         | :RD6, 8ES(B2) |
| ZD11         | :MTZJ8, 2B    |

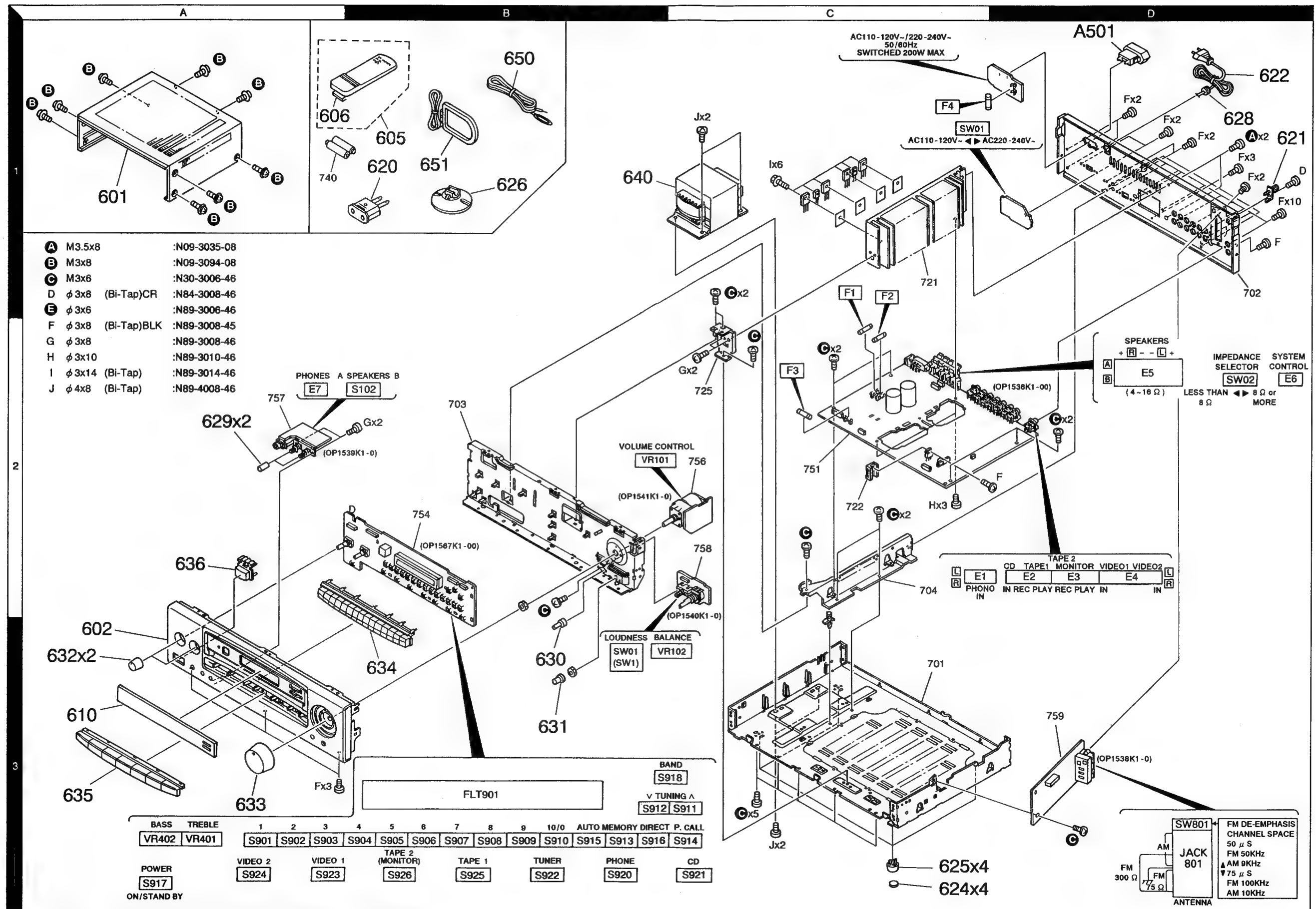






# KR-A4060 KR-A4060

## EXPLODED VIEW (UNIT)



EXCEPT E.T.

35

\* New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

1

| Ref. No.<br>参照番号 | Address<br>位置 | New Parts<br>部品番号 | Description<br>部品名 / 規格       | Desti-<br>nation<br>仕 | Re-<br>marks<br>向備考 |
|------------------|---------------|-------------------|-------------------------------|-----------------------|---------------------|
| KR-A4060         |               |                   |                               |                       |                     |
| 601              | 1A            | A01-3147-08       | METALLIC CABINET              | MX                    |                     |
| 601              | 1A            | A01-3148-08       | METALLIC CABINET              | KPR                   |                     |
| 602              | 3A            | A00-0434-08       | FRONT PANEL                   |                       |                     |
| 605              | 1B            | A00-0985-08       | REMOTE CONTROL ASSY           |                       |                     |
| 606              | 1A            | A09-0170-08       | BATTERY COVER                 |                       |                     |
| 610              | 3A            | B46-0197-00       | CARD REGISTRATION             | K                     |                     |
| -                |               | B10-2040-08       | FRONT GLASS                   | K                     |                     |
| -                |               | B46-0092-23       | WARRANTY CARD                 | X                     |                     |
| -                |               | B46-0096-33       | WARRANTY CARD                 | P                     |                     |
| -                |               | B46-0121-23       | WARRANTY CARD                 |                       |                     |
| -                |               | B60-1577-08       | INSTRUCTION MANUAL (ENGLISH)  | KXR                   |                     |
| -                |               | B60-1578-08       | INSTRUCTION MANUAL (ENG.FRE)  |                       |                     |
| -                |               | B60-1579-08       | INSTRUCTION MANUAL (ENG.CHI)  | M                     |                     |
| -                |               | B60-1580-08       | INSTRUCTION MANUAL (ENGLISH)  | ET                    |                     |
| -                |               | B60-1581-08       | INSTRUCTION MANUAL (FR,GU,NU) | E                     |                     |
| -                |               | B60-1582-08       | INSTRUCTION MANUAL (SPA,ITA)  | E                     |                     |
| -                |               | B60-1619-08       | INSTRUCTION MANUAL (SPANISH)  | MR                    |                     |
| 620              | 1B            | E03-0115-05       | AC PLUG ADAPTER               | M                     |                     |
| 621              | 1D            | E21-0023-08       | GND TERMINAL                  |                       |                     |
| 622              | 1D            | E30-0459-05       | AC POWER CORD                 | M                     |                     |
| 622              | 1D            | E30-0974-05       | AC POWER CORD                 | KPR                   |                     |
| 622              | 1D            | E30-1341-05       | AC POWER CORD                 | X                     |                     |
| 624              | 1D            | E03-0055-08       | AC OUTLET                     | M                     |                     |
| 624              | 1D            | E03-0123-08       | AC OUTLET                     | KPR                   |                     |
| 624              | 1D            | E03-0316-08       | AC OUTLET                     | X                     |                     |
| 624              | 3C            | G13-0267-08       | CUSHION                       |                       |                     |
| -                |               | H50-1028-08       | ITEM CATCHBOX                 | KPR                   |                     |
| -                |               | H50-1029-08       | ITEM CATCHBOX                 | M                     |                     |
| -                |               | H10-5855-08       | POLYSTYRENE FOAMED FIXTURE    |                       |                     |
| -                |               | H25-0078-04       | PROTECTION BAG (ACCESSORY)    |                       |                     |
| -                |               | H25-0647-08       | PROTECTION BAG (MANUAL)       |                       |                     |
| -                |               | H25-1543-08       | PROTECTION BAG (UNIT)         |                       |                     |
| 625              | 3C            | J02-1107-08       | FOOT                          |                       |                     |
| 626              | 1B            | J19-2815-04       | ANTENNA HOLDER                |                       |                     |
| 628              | 1D            | J42-0198-08       | AC CORD BUSHING               |                       |                     |
| 629              | 2A            | K27-2033-08       | KNOB SPEAKERS                 |                       |                     |
| 630              | 3B            | K27-2166-08       | KNOB LOUDNESS                 |                       |                     |
| 631              | 3B            | K29-4444-08       | KNOB BALANCE                  |                       |                     |
| 632              | 3A            | K29-5952-08       | KNOB BASS, TREBLE             |                       |                     |
| 633              | 3A            | K29-5953-08       | KNOB VOLUME                   |                       |                     |
| 634              | 3B            | K29-5954-08       | KNOB PRESET (10KEY)           |                       |                     |
| 635              | 3A            | K29-5955-08       | KNOB FUNCTION                 |                       |                     |
| 636              | 2A            | K29-5956-08       | KNOB POWER                    |                       |                     |
| 640              | 1B            | L07-0388-08       | TRANSFORMER                   | KPR                   |                     |
| 640              | 1B            | L07-1803-08       | TRANSFORMER                   | M                     |                     |
| 640              | 1B            | L07-1804-08       | TRANSFORMER                   | X                     |                     |
| A                | 2C            | N09-2907-05       | BINDING HEAD TAPITTE SCREW    |                       |                     |
| B                | 1A            | N09-3094-08       | BINDING HEAD TAPITTE SCREW    |                       |                     |
| C                | 2D            | N30-3006-46       | SCREW                         |                       |                     |
| D                | 1D            | N84-3006-46       | TAPITTE SCREW                 |                       |                     |

L: Scandinavia K: USA P: Canada R: Mexico  
Y: PX (Far East, Hawaii) T: England E: Europe G: Germany  
Y: AA/FES (Europe) X: Australia M: Other Areas

△ indicates safety critical components.

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3

| Ref. No.<br>参照番号 | Address<br>位置 | New Parts<br>部品番号 | Description<br>部品名 / 規格 | Desti-<br>nation<br>仕 | Re-<br>marks<br>向備考 |
|------------------|---------------|-------------------|-------------------------|-----------------------|---------------------|
| C211-214         |               | CC45CHI1H221J     | CERAMIC                 |                       |                     |
| C215-216         |               | CC45SL1H680J      | CERAMIC                 |                       |                     |
| C217-218         |               | CC45FF1H103Z      | CERAMIC                 |                       |                     |
| C219-220         |               | KHR-QP1801J6      | CERAMIC                 |                       |                     |
| C221-222         |               | CC45CHI1H221J     | CERAMIC                 |                       |                     |
| C223             |               | CE04KW1J470M      | ELECTRØ                 |                       |                     |
| C224             |               | CE04KW1J101M      | ELECTRØ                 |                       |                     |
| C225             |               | CE04KW0J221M      | ELECTRØ                 |                       |                     |
| C229-230         |               | C992FM1H333J      | MYLAR                   |                       |                     |
| C401-402         |               | C992FM1H822J      | MYLAR                   |                       |                     |
| C407-408         |               | C992FM1H333J      | MYLAR                   |                       |                     |
| C409-410         |               | CE04KW1H470M      | ELECTRØ                 |                       |                     |
| C411-412         |               | C992FM1H533J      | MYLAR                   |                       |                     |
| C413-414         |               | C992FM1H683J      | MYLAR                   |                       |                     |
| C801             |               | CE04KW1H101M      | ELECTRØ                 |                       |                     |
| C802             |               | CE04KW1C470M      | ELECTRØ                 |                       |                     |
| C803             |               | C992FM1H273J      | MYLAR                   |                       |                     |
| C804             |               | CE04KW1H101M      | ELECTRØ                 |                       |                     |
| C805             |               | CE04KW1C470M      | ELECTRØ                 |                       |                     |
| C806-807         |               | CC45F1H103M       | CERAMIC                 |                       |                     |
| C809             |               | CC45FF1H223Z      | CERAMIC                 |                       |                     |
| C816             |               | CC45FF1H223Z      | CERAMIC                 |                       |                     |
| C817             |               | CE04KW1H2R2M      | ELECTRØ                 |                       |                     |
| C818             |               | CE04KW1H470M      | ELECTRØ                 |                       |                     |
| C819             |               | CC45FF1H223Z      | CERAMIC                 |                       |                     |
| C820             |               | CE04KW1H3R3M      | ELECTRØ                 |                       |                     |
| C821             |               | CC45F1H103M       | CERAMIC                 |                       |                     |
| C822             |               | CC45FF1H223Z      | CERAMIC                 |                       |                     |
| C823             |               | CC45FF1H223Z      | CERAMIC                 |                       |                     |
| C824             |               | CC45FF1H223Z      | CERAMIC                 |                       |                     |
| C825             |               | C992FM1H153J      | MYLAR                   |                       |                     |
| C826             |               | CE04KW1H100M      | ELECTRØ                 |                       |                     |
| C827             |               | CE04KW1H470M      | ELECTRØ                 |                       |                     |
| C828-830         |               | CC45F1H103M       | CERAMIC                 |                       |                     |
| C831             |               | CC45CHI1H101J     | CERAMIC                 |                       |                     |
| C832             |               | CC45F1H103M       | CERAMIC                 |                       |                     |
| C833             |               | CE04KW1C470M      | ELECTRØ                 |                       |                     |
| C839             |               | C992FM1H471K      | POLYSTY                 |                       |                     |
| C840             |               | CE04KW1H682M      | ELECTRØ                 |                       |                     |
| C841             |               | CE04KW1H3R3M      | ELECTRØ                 |                       |                     |
| C842             |               | CE04KW1H470M      | ELECTRØ                 |                       |                     |
| C843             |               | C992FM1H473J      | MYLAR                   |                       |                     |
| C844             |               | CC45F1H103M       | CERAMIC                 |                       |                     |
| C845             |               | CC45F1H103M       | CERAMIC                 |                       |                     |
| C846-847         |               | CC45SL1H151K      | CERAMIC                 |                       |                     |
| C849             |               | CE04KW1C221M      | ELECTRØ                 |                       |                     |
| C850-851         |               | CE04KW1H101M      | ELECTRØ                 |                       |                     |
| C852             |               | C992FM1H222J      | MYLAR                   |                       |                     |
| C853             |               | C992FM1H562J      | MYLAR                   |                       |                     |
| C854-855         |               | C992FM1H153J      | MYLAR                   |                       |                     |
| C854-855         |               | CC45F1H103M       | CERAMIC                 |                       |                     |
| C856             |               | CE04KW1C470M      | ELECTRØ                 |                       |                     |
| C857             |               | CE04KW1C470M      | ELECTRØ                 |                       |                     |
| C858-859         |               | CC45CHI1H220J     | CERAMIC                 |                       |                     |
| C860-862         |               | CC45CHI1H101J     | CERAMIC                 |                       |                     |

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2

| Ref. No.<br>参照番号 | Address<br>位置 | New Parts<br>部品番号 | Description<br>部品名 / 規格    | Desti-<br>nation<br>仕 | Re-<br>marks<br>向備考 |
|------------------|---------------|-------------------|----------------------------|-----------------------|---------------------|
| E                | 3A, 1D        | N89-3008-45       | BINDING HEAD TAPITTE SCREW |                       |                     |
| F                | 2B, 2D        | N89-3008-46       | BINDING HEAD TAPITTE SCREW |                       |                     |
| F                | 2B, 2D        | N89-3014-46       | BINDING HEAD TAPITTE SCREW |                       |                     |
| G                | 1C, 3C        | N89-4008-46       | BINDING HEAD TAPITTE SCREW |                       |                     |
| 650              | 1B            | T90-0182-05       | T TYPE ANTENNA             |                       |                     |
| 651              | 1B            | T90-0184-08       | LOOP ANTENNA               |                       |                     |
| ELECTRIC PARTS   |               |                   |                            |                       |                     |
| D901             |               | B30-0413-05       | LED (LT4213(RED)POWER)     |                       |                     |
| △ C1             |               | CC45CHI1H472J     | CERAMIC                    |                       |                     |
| C6               |               | CE04KW1E471M      | ELECTRØ                    |                       |                     |
| C6               |               | CE04KW1H100M      | ELECTRØ                    |                       |                     |
| C7               |               | CE04KW1A101M      | ELECTRØ                    |                       |                     |
| C8               |               | CE04KW1H010M      | ELECTRØ                    |                       |                     |
| C9               |               | CE04KW1H101M      | ELECTRØ                    |                       |                     |
| C10              |               | CE04KW1V101M      | ELECTRØ                    |                       |                     |
| C11              |               | CE04KW1H010M      | ELECTRØ                    |                       |                     |
| C12              |               | CE04KW1C470M      | ELECTRØ                    |                       |                     |
| C13-14           |               | CC45FBIH473Z      | CERAMIC                    |                       |                     |
| C15-16           |               | C90-0366-05       | ELECTRØ                    |                       |                     |
| C22              |               | CE04KW1H470M      | ELECTRØ                    |                       |                     |
| C23              |               | CC45FF1H223Z      | CERAMIC                    |                       |                     |
| C24              |               | CC45FF1H103Z      | CERAMIC                    |                       |                     |
| C24              |               | CC45CHI1H102J     | CERAMIC                    |                       |                     |
| C32-33           |               | CC45FF1H103Z      | CERAMIC                    |                       |                     |
| C35              |               | CE04KW1E471M      | ELECTRØ                    |                       |                     |
| C36              |               | CC45FF1H104Z      | CERAMIC                    |                       |                     |
| C37              |               | CE04KW1C470M      | ELECTRØ                    |                       |                     |
| C38              |               | CE04KW1H221M      | ELECTRØ                    |                       |                     |
| C39              |               | CE04KW1C101M      | ELECTRØ                    |                       |                     |
| C40              |               | CC45FF1H104Z      | CERAMIC                    |                       |                     |
| C101-102         |               | CE04KW1H470M      | ELECTRØ                    |                       |                     |
| C103-104         |               | CC45CHI1H221J     | CERAMIC                    |                       |                     |
| C105-106         |               | CC45CHI1H102J     | CERAMIC                    |                       |                     |
| C107-108         |               | CE04KW1A101M      | ELECTRØ                    |                       |                     |
| C109-110         |               | C992FM1H332J      | MYLAR                      |                       |                     |
| C111-112         |               | C992FM1H123J      | MYLAR                      |                       |                     |
| C113-114         |               | CE04KW1H470M      | ELECTRØ                    |                       |                     |
| C115             |               | CC45FF1H103Z      | CERAMIC                    |                       |                     |
| C117-118         |               | CE04KW1C470M      | ELECTRØ                    |                       |                     |
| C135-136         |               | CC45FF1H472Z      | CERAMIC                    |                       |                     |
| C137             |               | CC45CHI1H221J     | CERAMIC                    |                       |                     |
| C138-139         |               | CC45FF1H102Z      | CERAMIC                    |                       |                     |
| C149-150         |               | CC45FF1H103Z      | CERAMIC                    |                       |                     |
| C151             |               | CE04KW1C470M      | ELECTRØ                    |                       |                     |
| C152             |               | CE04RPIH010M      | MP-ELEC                    |                       |                     |
| C153-155         |               | CE04RPIH010M      | ELECTRØ                    |                       |                     |
| C156             |               | CE04KW1H101M      | ELECTRØ                    |                       |                     |
| C157             |               | CE04KW1H470M      | ELECTRØ                    |                       |                     |
| C159-160         |               | C992FM1H273J      | MYLAR                      |                       |                     |
| C201-202         |               | CE04KW1H470M      | ELECTRØ                    |                       |                     |
| C203-204         |               | CC45SL1H680J      | CERAMIC                    |                       |                     |
| C205-208         |               | CC45SL1H101J      | CERAMIC                    |                       |                     |
| C209-210         |               | CE04KW1A101M      | ELECTRØ                    |                       |                     |

L: Scandinavia K: USA P: Canada R: Mexico  
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4

| Ref. No.<br>参照番号 | Address<br>位置 | New Parts<br>部品番号 | Description<br>部品名 / 規格    | Desti-<br>nation<br>仕 | Re-<br>marks<br>向備考 |
|------------------|---------------|-------------------|----------------------------|-----------------------|---------------------|
| C863             |               | CC45F1H103M       | CERAMIC                    |                       |                     |
| C864             |               | C992FM1H222J      | MYLAR                      |                       |                     |
| C865             |               | C992FM1H562J      | MYLAR                      |                       |                     |
| C890             |               | CC45CHI1H220J     | CERAMIC                    |                       |                     |
| C902             |               | CE04KW1H470M      | ELECTRØ                    |                       |                     |
| C903             |               | CC45F1H103M       | CERAMIC                    |                       |                     |
| C904             |               | CE04KW1H101M      | ELECTRØ                    |                       |                     |
| C905             |               | C90-1827-05       | ELECTRØ                    |                       |                     |
| C906-907         |               | CC45F1H103M       | CERAMIC                    |                       |                     |
| C908             |               | CC45CHI1H221J     | CERAMIC                    |                       |                     |
| C910             |               | CC45FF1H104Z      | CERAMIC                    |                       |                     |
| C920             |               | CE04KW1H100M      | ELECTRØ                    |                       |                     |
| C921             |               | CC45FF1H104Z      | CERAMIC                    |                       |                     |
| C922             |               | CE04KW1A101M      | ELECTRØ                    |                       |                     |
| C923             |               | CC45FBIH473Z      | CERAMIC                    |                       |                     |
| C926             |               | CC45SL1H101J      | CERAMIC                    |                       |                     |
| △ A501           | 1D            | E03-0144-08       | AC OUTLET                  |                       |                     |
| E1               |               | E13-0249-05       | TERMINAL BOARD PHONO       |                       |                     |
| E2               |               | E63-0118-08       | TERMINAL BOARD CD TAPE1    |                       |                     |
| E5               |               | E70-0004-08       | TERMINAL BOARD SPEAKERS    |                       |                     |
| E6               |               | E11-0188-05       | PHONE JACK                 |                       |                     |
| E7               |               | E11-0263-08       | PHONE JACK                 |                       |                     |
| E3-4             |               | E13-0445-05       | TERMINAL BOARD VIDEO1,2    |                       |                     |
| JACK801          |               | E70-0005-08       | TERMINAL BOARD ANTENNA     |                       |                     |
| △ F1             |               | F04-5022-05       | FUSE UL/CSA 5A(125V)       |                       |                     |
| △ F1             |               | F06-2021-05       | FUSE T2.0AL(250V)          |                       |                     |
| △ F2             |               | F05-2525-05       | FUSE T2.5AL(250V)          |                       |                     |
| △ F2             |               | F06-2525-05       | FUSE UL/CSA 2.5A(125V)     |                       |                     |
| △ F3             |               | F06-1022-05       | FUSE T1.0AL(250V)          |                       |                     |
| △ F3             |               | KHT-JF1209L1      | FUSE UL/CSA T1.0A(250V)    |                       |                     |
| △ F4             |               | F06-2021-05       | FUSE T2.0AL(250V)          |                       |                     |
|                  |               | J13-0084-08       | FUSE HOLDER                |                       |                     |
| CF801-802        |               | L72-0531-05       | CERAMIC FILTER             |                       |                     |
| CF803            |               | L72-0096-05       | CERAMIC FILTER             |                       |                     |
| L201-202         |               | L39-1303-08       | INDUCTOR                   |                       |                     |
| L801             |               | L40-1091-17       | SMALL FIXED INDUCTOR 10H   |                       |                     |
| L802             |               | L39-0189-05       | COIL                       |                       |                     |
| L804             |               | L30-0488-05       | IFT-AM                     |                       |                     |
| L806             |               | L30-0439-05       | IFT-FM                     |                       |                     |
| L901             |               | L40-1001-17       | COIL INDUCTOR 100H         |                       |                     |
| T1               |               | L07-0408-08       | TRANS FORMER               |                       |                     |
| T1               |               | L07-0789-08       | TRANS FORMER               |                       |                     |
| T1               |               | L07-0790-08       | TRANS FORMER               |                       |                     |
| X801             |               | L77-1122-05       | CRYSTAL RESONATOR 7.2MHz   |                       |                     |
| F                | 2D            | L78-0209-05       | RESONATOR                  |                       |                     |
|                  |               | N89-3008-46       | BINDING HEAD TAPITTE SCREW |                       |                     |
| Cp1-2            |               | R90-0187-05       | 0-22 J 5W                  |                       |                     |
| R0               |               | KHR-RC3356J0      | 3-3M J 1/2W                |                       |                     |
| R3               |               | RD14G82E101J      | FL-PR00F RD 100 J 1/4W     |                       |                     |
| R31              |               | RD14G82E101J      | FL-PR00F RD 100 J 1/4W     |                       |                     |
| R32              |               | RS14D83D122J      | FL-PR00F RS 1-2K J 2W      |                       |                     |

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# KR-A4060

## PARTS LIST

# KR-A4060

## PARTS LIST



## PARTS LIST

\* New Parts

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| Ref. No.<br>参照番号 | Address<br>位置 | Parts No.<br>部品番号 | Description<br>部品名 / 規格        | Desti-<br>nation<br>仕 | Re-<br>marks<br>備考 |
|------------------|---------------|-------------------|--------------------------------|-----------------------|--------------------|
| IC102            |               | NJU7313L          | IC(ANALOG SWITCH)              |                       |                    |
| IC102            |               | TC9164N           | IC(16CH BILATERAL SELECTOR SW) |                       |                    |
| IC104            |               | NJU7311L          | IC(ANALOG SWITCH)              |                       |                    |
| IC104            |               | TC9162N           | IC(ANALOG SWITCH ARRAY)        |                       |                    |
| IC106            |               | BA6209N           | IC(MOTOR DRIVER)               |                       |                    |
| IC801            |               | LA1265            | IC(FM/AM TUNER)                |                       |                    |
| IC802            |               | AN7470            | IC(FM MPX)                     |                       |                    |
| IC803            |               | LM7001            | IC(PLL FREQUENCY SYNTHESIZER)  |                       |                    |
| IC901            |               | CXP5016-524S      | IC(4bit MICROPROCESSOR)        |                       |                    |
| IC901            |               | CXP5016-531S      | IC(4bit MICROPROCESSOR)        |                       |                    |
| Q1               |               | 2SC2316           | TRANSISTOR                     |                       |                    |
| Q4               |               | 2SC1740S          | TRANSISTOR                     |                       |                    |
| Q7               |               | DTA114ES          | DIGITAL TRANSISTOR             |                       |                    |
| Q8               |               | 2SA916            | TRANSISTOR                     |                       |                    |
| Q2, 3            |               | DTA114ES          | DIGITAL TRANSISTOR             |                       |                    |
| Q5, 6            |               | 2SA933            | TRANSISTOR                     |                       |                    |
| Q101-104         |               | 2SC2878           | TRANSISTOR                     |                       |                    |
| Q105, 106        |               | DTA114TS          | DIGITAL TRANSISTOR             |                       |                    |
| Q201-204         |               | 2SA992            | TRANSISTOR                     |                       |                    |
| Q205, 206        |               | 2SC1845           | TRANSISTOR                     |                       |                    |
| Q207, 208        |               | 2SA992            | TRANSISTOR                     |                       |                    |
| Q209, 210        |               | 2SC1845           | TRANSISTOR                     |                       |                    |
| Q211, 212        |               | 2SC4137           | TRANSISTOR                     |                       |                    |
| Q213, 214        |               | 2SC2316           | TRANSISTOR                     |                       |                    |
| Q215, 216        |               | 2SA916            | TRANSISTOR                     |                       |                    |
| Q217, 218        |               | 2SC4468           | TRANSISTOR                     |                       |                    |
| Q219, 220        |               | 2SA1695           | TRANSISTOR                     |                       |                    |
| Q221, 222        |               | 2SC1845           | TRANSISTOR                     |                       |                    |
| Q223, 224        |               | 2SC1740S          | TRANSISTOR                     |                       |                    |
| Q801             |               | KTC31940          | TRANSISTOR                     |                       |                    |
| Q803             |               | 2SC1740S          | TRANSISTOR                     |                       |                    |
| Q804             |               | 2SC1845F          | TRANSISTOR                     |                       |                    |
| Q808, 809        |               | 2SA933S           | TRANSISTOR                     |                       |                    |
| Q811, 812        |               | 2SC1740S          | TRANSISTOR                     |                       |                    |
| Q901             |               | 2SA933S           | TRANSISTOR                     |                       |                    |
| Q902             |               | 2SC1740S          | TRANSISTOR                     |                       |                    |
| Q903             |               | DTA143TS          | TRANSISTOR                     |                       |                    |
| ZD1              |               | MTZJ3.9B          | ZENER DIODE                    |                       |                    |
| ZD3              |               | MTZJ5.1B          | ZENER DIODE                    |                       |                    |
| ZD4              |               | MTZJ6.2B          | ZENER DIODE                    |                       |                    |
| ZD6              |               | RD15ES(B2)        | ZENER DIODE                    |                       |                    |
| ZD7              |               | MTZ12B            | ZENER DIODE                    |                       |                    |
| ZD10, 11         |               | MTZJ6.2B          | ZENER DIODE                    |                       |                    |
| A901             |               | W02-1111-08       | ELECTRIC CIRCUIT MODULE        |                       |                    |
| TU801            |               | W02-2504-08       | FM FRONT END UNIT              |                       |                    |

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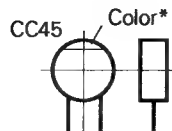
EXCEPT

## PARTS LIST

### CAPACITORS

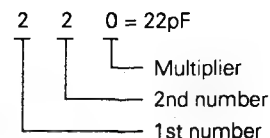
CC 45 TH 1H 220 J  
1 2 3 4 5 6

- 1 = Type ... ceramic, electrolytic, etc. 4 = Voltage rating  
2 = Shape ... round, square, ect. 5 = Value  
3 = Temp. coefficient 6 = Tolerance



#### • Capacitor value

- 010 = 1pF  
100 = 10pF  
101 = 100pF  
102 = 1000pF = 0.001μF  
103 = 0.01μF



#### • Temperature coefficient

| 1st Word | C     | L   | P      | R      | S     | T    | U      |
|----------|-------|-----|--------|--------|-------|------|--------|
| Color*   | Black | Red | Orange | Yellow | Green | Blue | Violet |
| ppm/°C   | 0     | -80 | -150   | -220   | -330  | -470 | -750   |

| 2nd Word | G   | H   | J    | K    | L    |
|----------|-----|-----|------|------|------|
| ppm/°C   | ±30 | ±60 | ±120 | ±250 | ±500 |

Example : CC45TH = -470 ± 60ppm/°C

#### • Tolerance (More than 10pF)

| Code | C     | D    | G  | J  | K   | M   | X          | Z          | P          | No code                                               |
|------|-------|------|----|----|-----|-----|------------|------------|------------|-------------------------------------------------------|
| (%)  | ±0.25 | ±0.5 | ±2 | ±5 | ±10 | ±20 | +40<br>-20 | +80<br>-20 | +100<br>-0 | More than 10μF -10 ~ +50<br>Less than 4.7μF -10 ~ +75 |

#### (Less than 10pF)

| Code | B    | C     | D    | F  | G  |
|------|------|-------|------|----|----|
| (pF) | ±0.1 | ±0.25 | ±0.5 | ±1 | ±2 |

#### • Voltage rating

| 2nd word<br>1st word | A    | B    | C    | D    | E    | F    | G    | H    | J    | K    | V  |
|----------------------|------|------|------|------|------|------|------|------|------|------|----|
| 0                    | 1.0  | 1.25 | 1.6  | 2.0  | 2.5  | 3.15 | 4.0  | 5.0  | 6.3  | 8.0  | -  |
| 1                    | 10   | 12.5 | 16   | 20   | 25   | 31.5 | 40   | 50   | 63   | 80   | 35 |
| 2                    | 100  | 125  | 160  | 200  | 250  | 315  | 400  | 500  | 630  | 800  | -  |
| 3                    | 1000 | 1250 | 1600 | 2000 | 2500 | 3150 | 4000 | 5000 | 6300 | 8000 | -  |

#### • Chip capacitors

(EX) C C 7 3 F S L 1 H 0 0 0 J  
1 2 3 4 5 6 7

(Chip) (CH, RH, UJ, SL)

(EX) C K 7 3 F F 1 H 0 0 0 Z  
1 2 3 4 5 6 7

(Chip) (B, F)

Refer to the table above.

1 = Type  
2 = Shape  
3 = Dimension  
4 = Temp. coefficient  
5 = Voltage rating  
6 = Value  
7 = Tolerance

#### Dimension (Chip capacitors)

| Dimension code | L         | W          | T              |
|----------------|-----------|------------|----------------|
| Empty          | 5.6 ± 0.5 | 5.0 ± 0.5  | Less than 2.0  |
| A              | 4.5 ± 0.5 | 3.2 ± 0.4  | Less than 2.0  |
| B              | 4.5 ± 0.5 | 2.0 ± 0.3  | Less than 2.0  |
| C              | 4.5 ± 0.5 | 1.25 ± 0.2 | Less than 1.25 |
| D              | 3.2 ± 0.4 | 2.5 ± 0.3  | Less than 1.5  |
| E              | 3.2 ± 0.2 | 1.6 ± 0.2  | Less than 1.25 |
| F              | 2.0 ± 0.3 | 1.25 ± 0.2 | Less than 1.25 |
| G              | 1.6 ± 0.2 | 0.8 ± 0.2  | Less than 1.0  |

### RESISTORS

#### • Chip resistor (Carbon)

(EX) R K 7 3 E B 2 B 0 0 0 J  
1 2 3 4 5 6 7

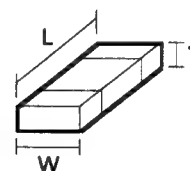
(Chip) (B, F)

#### • Carbon resistor (Normal type)

(EX) R D 1 4 B B 2 C 0 0 0 J  
1 2 3 4 5 6 7

- 1 = Type 5 = Rating wattage  
2 = Shape 6 = Value  
3 = Dimension 7 = Tolerance  
4 = Temp. coefficient

#### Dimension



#### Dimension (Chip resistor)

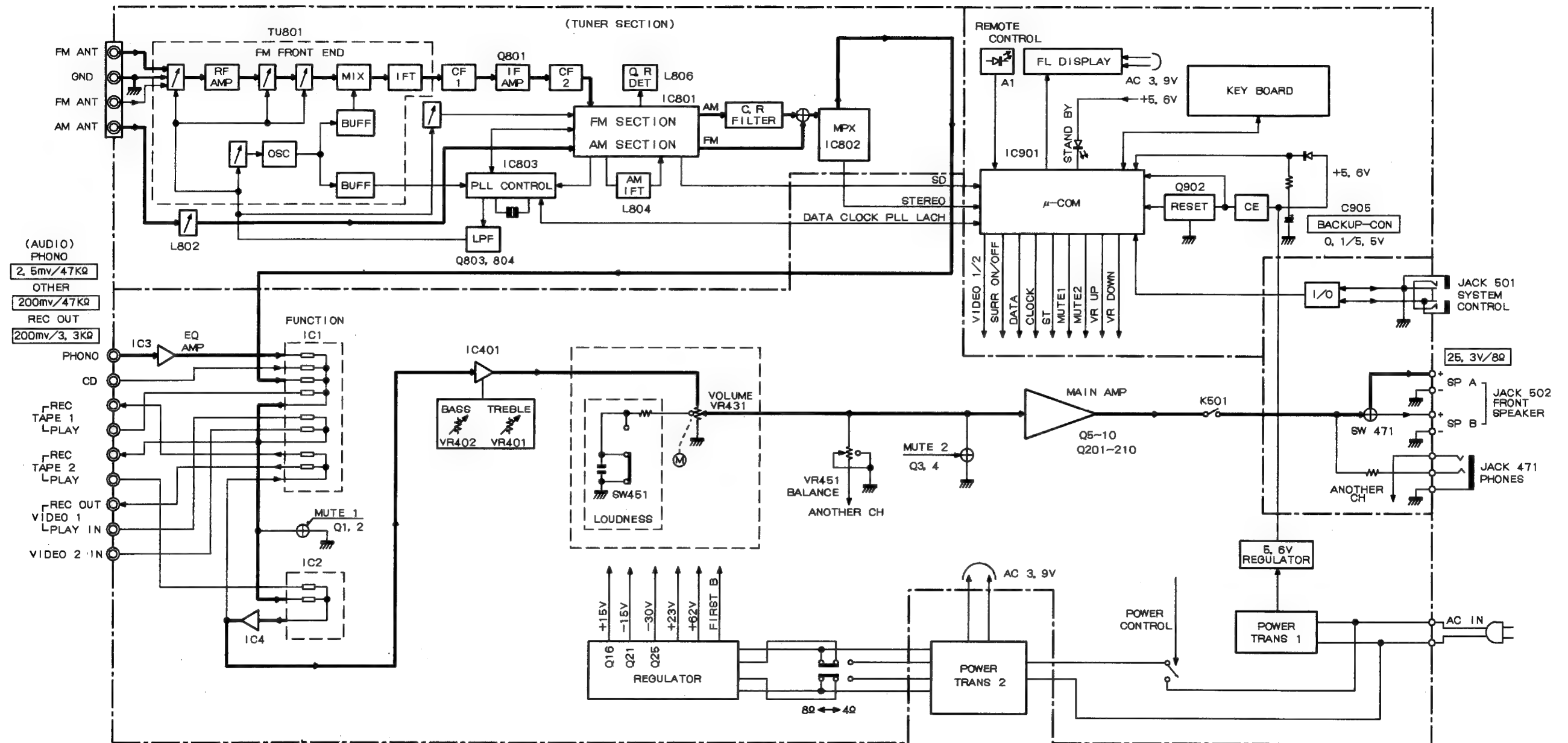
| Dimension code | L         | W          | T         |
|----------------|-----------|------------|-----------|
| E              | 3.2 ± 0.2 | 1.6 ± 0.2  | 1.0       |
| F              | 2.0 ± 0.3 | 1.25 ± 0.2 | 1.0       |
| G              | 1.6 ± 0.2 | 0.8 ± 0.2  | 0.5 ± 0.1 |

#### Rating wattage

| Code | Wattage | Code | Wattage | Code | Wattage |
|------|---------|------|---------|------|---------|
| 1J   | 1/16W   | 2C   | 1/6W    | 3A   | 1W      |
| 2A   | 1/10W   | 2E   | 1/4W    | 3D   | 2W      |
| 2B   | 1/8W    | 2H   | 1/2W    |      |         |

# KR-A5060 KR-A5060

## BLOCK DIAGRAM





ADJUSTMENT

AM section : If alignment point is "-", confirm the value. If not, replace the front end pack.

| No.           | ITEM                | INPUT SETTINGS                                                                                             | OUTPUT SETTINGS                                                   | TUNER SETTINGS       | ALIGNMENT POINTS                | ALIGN FOR                                                        | FIG. |
|---------------|---------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------|---------------------------------|------------------------------------------------------------------|------|
| FM SECTION    |                     | SELECTOR : FM                                                                                              |                                                                   |                      |                                 |                                                                  |      |
| 1             | DISCRIMINATOR       | (A)<br>98.0MHz<br>1kHz, ±75kHz dev.<br>60dBμ (ANT. input)                                                  | Connect a DC voltmeter between TP803 and TP804. (TUNER UNIT)      | AUTO or MONO 98.0MHz | L806 (TUNER UNIT)               | 0V.                                                              | (a)  |
| 2             | VCO                 | (A)<br>98.0MHz<br>0 dev.<br>60dBμ (ANT. input)                                                             | Connect a frequency counter between TP805 and TP806. (TUNER UNIT) | AUTO 98.0MHz         | L802 (TUNER UNIT)               | 19.00kHz                                                         | (b)  |
| 3             | DISTORTION (STEREO) | (C)<br>98.0MHz<br>1kHz, ±68.25kHz dev.<br>Selector : L or R<br>Pilot : ±6.75kHz dev.<br>60dBμ (ANT. input) | (B)                                                               | 98.0MHz              | IFT (W02-)                      | Minimum distortion. (L or R)                                     |      |
| 4             | TUNING LEVEL        | (A)<br>98.0MHz<br>0 dev.<br>18dBμ (ANT. input)                                                             | (B)                                                               | AUTO or MONO 98.0MHz | VR801 (TUNER UNIT)              | Adjust VR801 and stop at the point where FLT901 (TUNED) goes on. |      |
| AM SECTION    |                     | SELECTOR : AM                                                                                              |                                                                   |                      |                                 |                                                                  |      |
| (1)           | TUNING LEVEL        | (D)<br>1000 (999) kHz<br>26dBμ (ANT. input)                                                                | (B)                                                               | -                    | VR804 (TUNER UNIT)              | Adjust VR804 and stop at the point where FLT901 (TUNED) goes on. |      |
| AUDIO SECTION |                     |                                                                                                            |                                                                   |                      |                                 |                                                                  |      |
| <1>           | IDLE CURRENT        | -                                                                                                          | Connect a DC voltmeter across CP1 (L), CP2 (R) (MAIN UNIT)        | Volume : 0           | VR1 (L)<br>VR2 (R) (AUDIO UNIT) | 10mV                                                             | (d)  |

AJUSTES

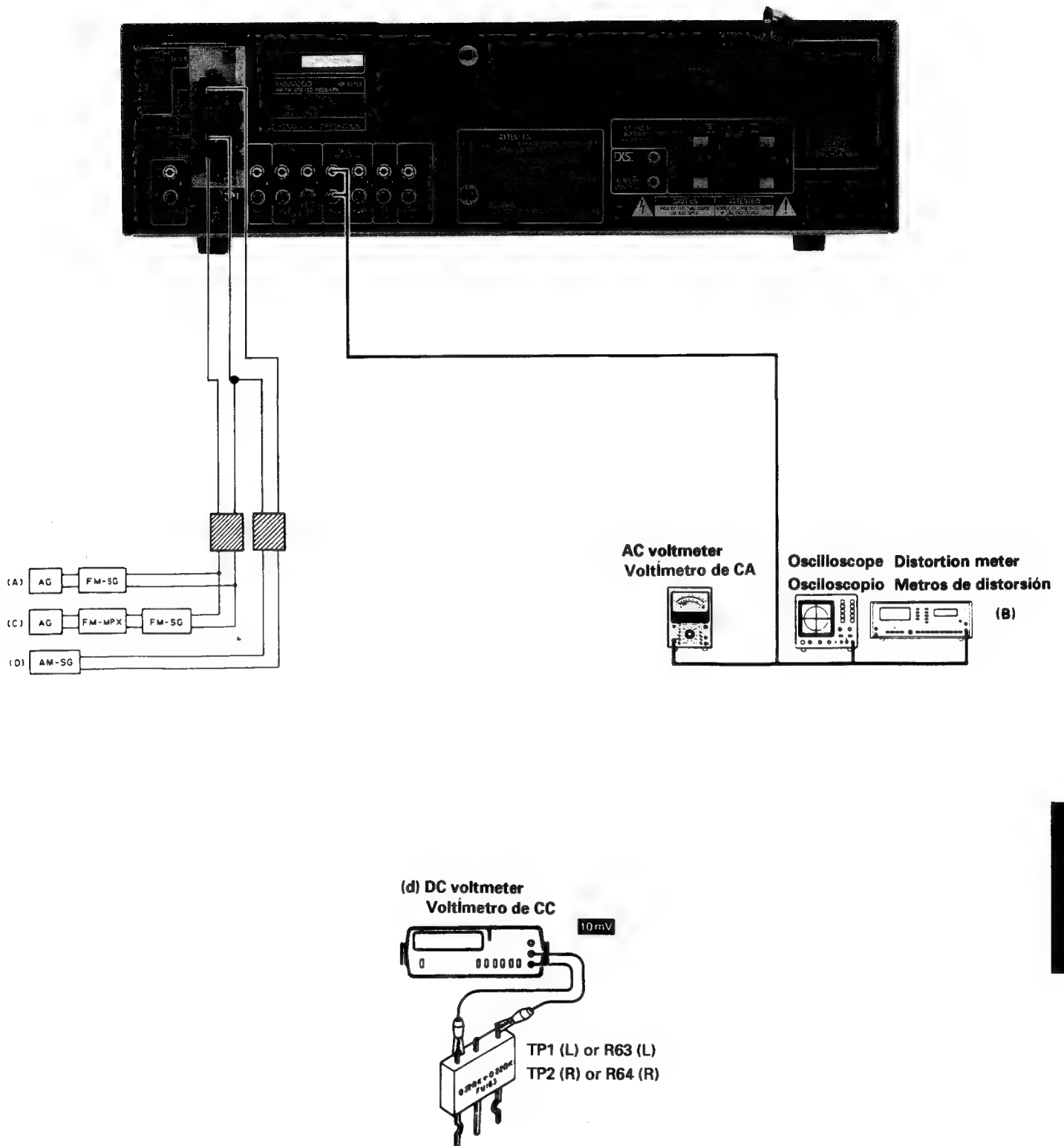
Sección de AM : Si el punto de alineación es "-", confirme el valor. Si no, reemplace el paquete de entrada.

| Núm.             | ÍTEM                 | AJUSTES DE ENTRADA                                                                                                | AJUSTES DE SALIDA                                                          | AJUSTES DEL SINTONIZADOR | PUNTOS DE ALINEACIÓN              | ALINEACIÓN PARA                                                              | FIG. |
|------------------|----------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------|-----------------------------------|------------------------------------------------------------------------------|------|
| SECCIÓN DE FM    |                      | SELECTOR : FM                                                                                                     |                                                                            |                          |                                   |                                                                              |      |
| 1                | DISCRIMINADOR        | (A)<br>98.0MHz<br>1kHz, ±75kHz dev.<br>60dBμ (Entrada de antena)                                                  | Conecte un voltímetro de CC entre TP803 y TP804. (UNIDAD DEL SINTONIZADOR) | AUTO o MONO 98.0MHz      | L806 (UNIDAD DEL SINTONIZADOR)    | 0V.                                                                          | (a)  |
| 2                | VCO                  | (A)<br>98.0MHz<br>0 dev.<br>60dBμ (Entrada de antena)                                                             | Conecte un Frecuencímetro entre TP805 y TP806. (UNIDAD DEL SINTONIZADOR)   | AUTO 98.0MHz             | L802 (UNIDAD DEL SINTONIZADOR)    | 19.00kHz                                                                     | (b)  |
| 3                | DISTORSIÓN (ESTÉREO) | (C)<br>98.0MHz<br>1kHz, ±68.25kHz dev.<br>Selector : L or R<br>Pilot : ±6.75kHz dev.<br>60dBμ (Entrada de antena) | (B)                                                                        | 98.0MHz                  | IFT (W02-)                        | Distorsión mínima. (L o R)                                                   |      |
| 4                | NIVEL DE SINTONÍA    | (A)<br>98.0MHz<br>0 dev.<br>18dBμ (Entrada de antena)                                                             | (B)                                                                        | AUTO o MONO 98.0MHz      | VR801 (UNIDAD DEL SINTONIZADOR)   | Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO). |      |
| SECCIÓN DE AM    |                      | SELECTOR : AM                                                                                                     |                                                                            |                          |                                   |                                                                              |      |
| (1)              | NIVEL DE SINTONÍA    | (D)<br>1000 (999) kHz<br>26dBμ (Entrada de antena)                                                                | (B)                                                                        | -                        | VR804 (UNIDAD DEL SINTONIZADOR)   | Ajuste VR801 y pare en el punto en el que se encienda FLT 901 (SINTONIZADO). |      |
| SECCIÓN DE AUDIO |                      |                                                                                                                   |                                                                            |                          |                                   |                                                                              |      |
| <1>              | CORRIENTE EN REPOSO  | -                                                                                                                 | Conecte un voltímetro de CC entre TP1 (L) y TP2 (R) (UNIDAD PRINCIPAL)     | Volumen : 0              | VR1 (L)<br>VR2 (R) (UNIDAD AUDIO) | 10mV                                                                         | (d)  |

EXCEPT E.T

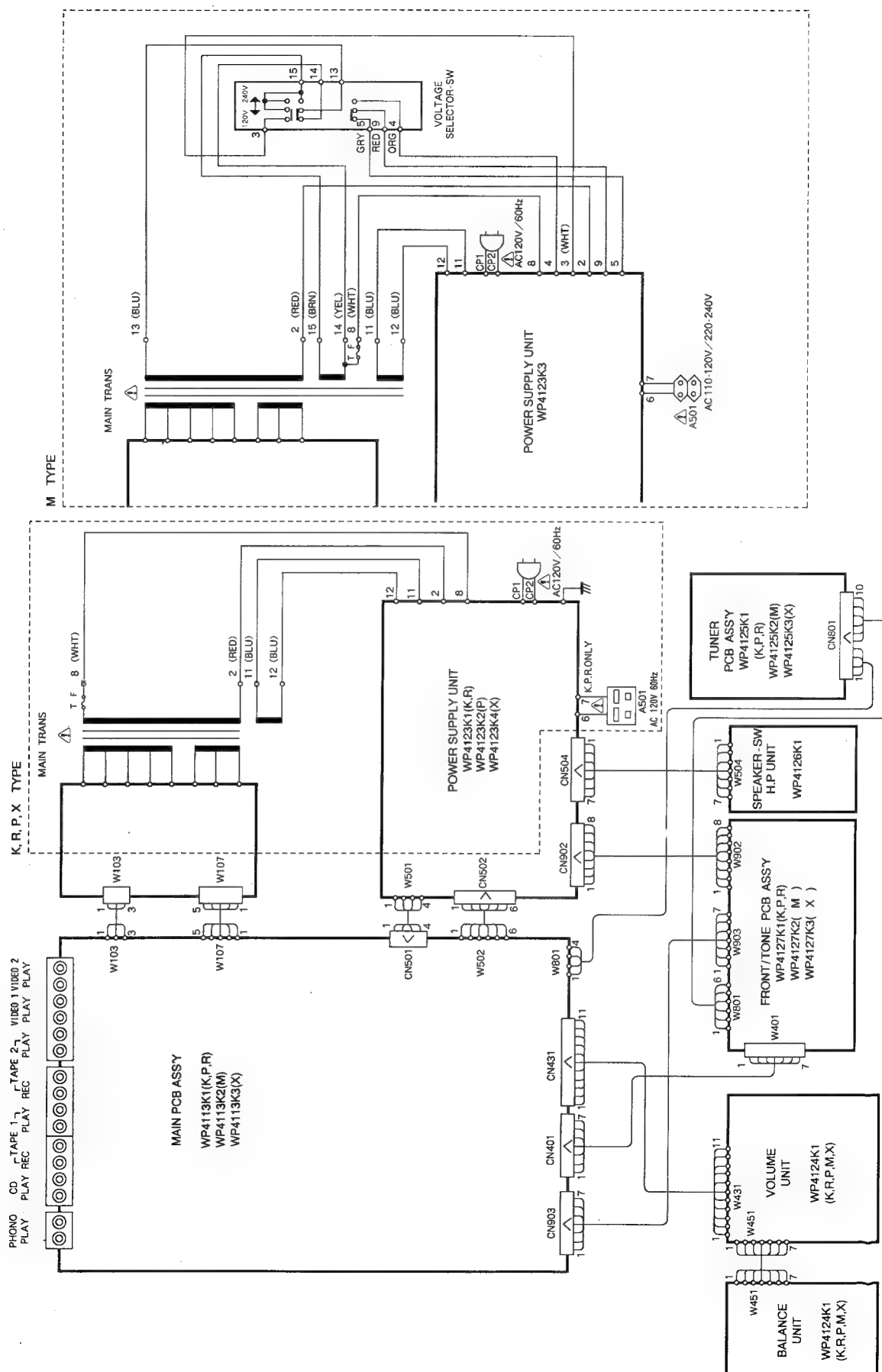
## ADJUSTMENT/AJUSTES

### SYSTEM CONNECTIONS/CONEXIONES DEL SISTEMA



# KR-A5060

## WIRING DIAGRAM

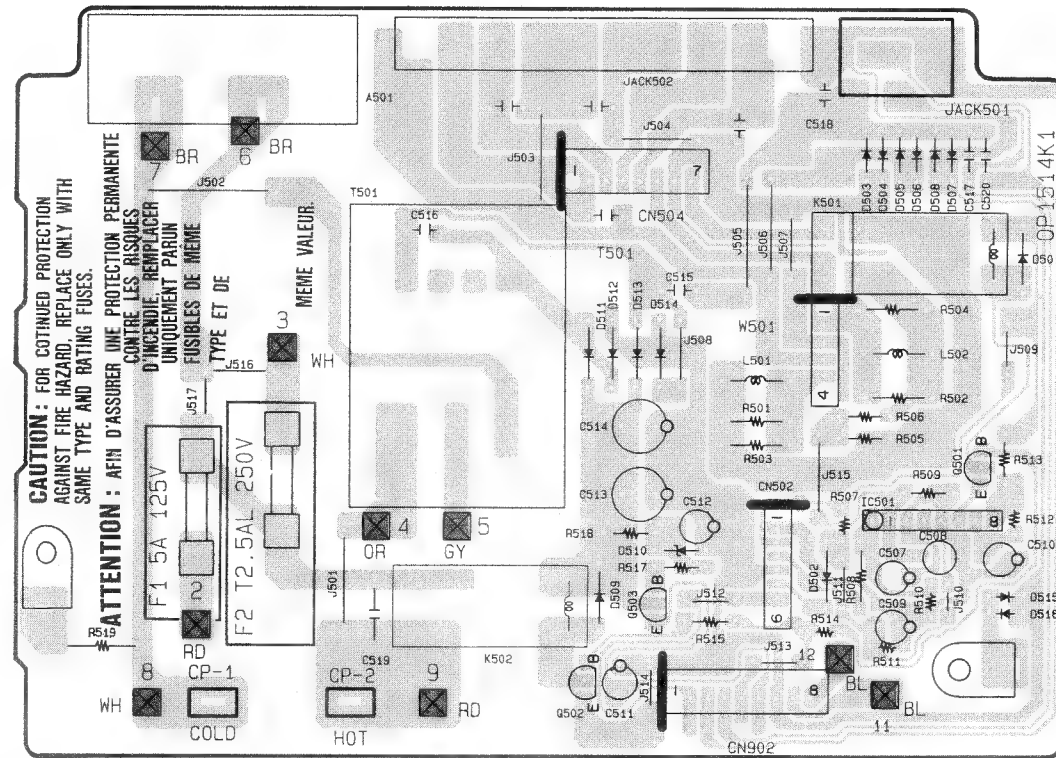


EXCEPT

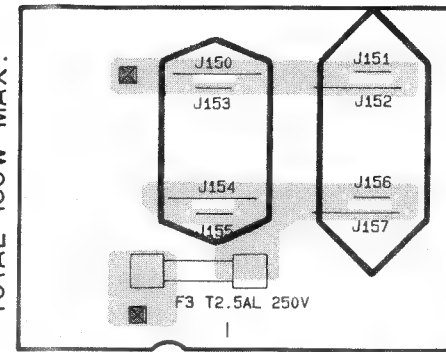
# PC BOARD (COMPONENT SIDE VIEW) : KR-A5060

SPEAKERS  
(A or B : 4-16Ω, A and B : 8-16Ω)  
+ L - - R +

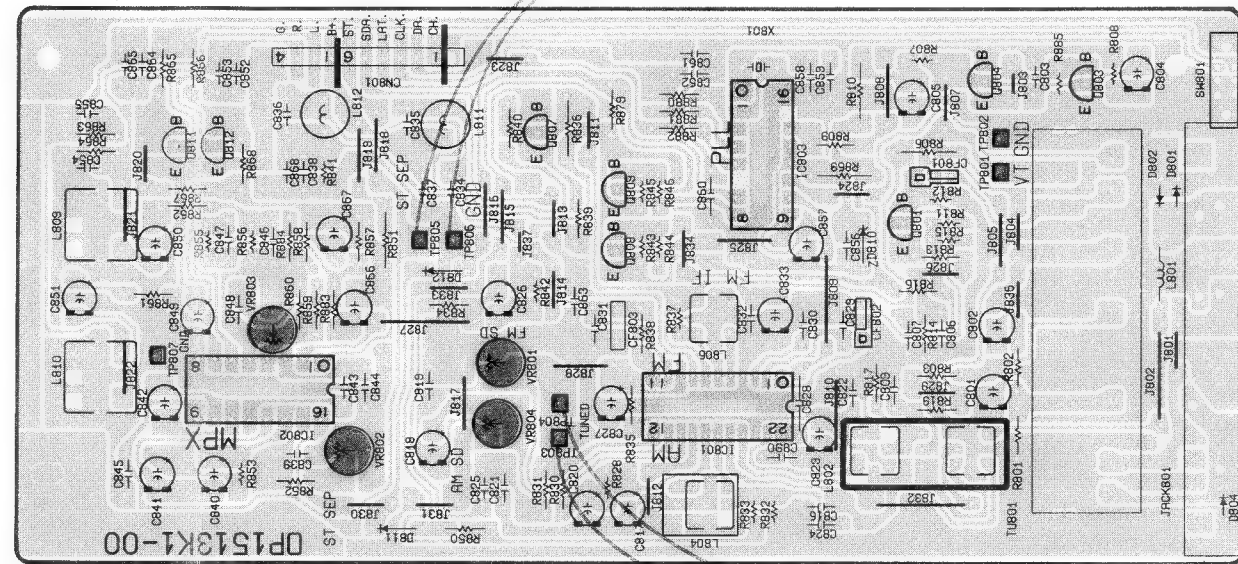
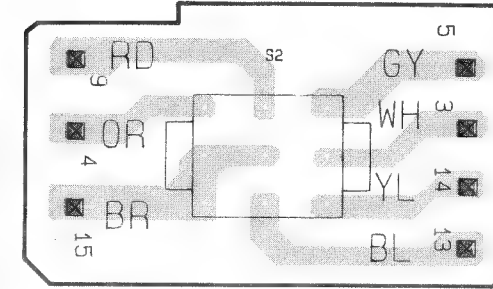
A SYSTEM  
B CONTROL



AC110-120V/220-240V~  
50/60Hz  
SWITCHED  
TOTAL 150W MAX.

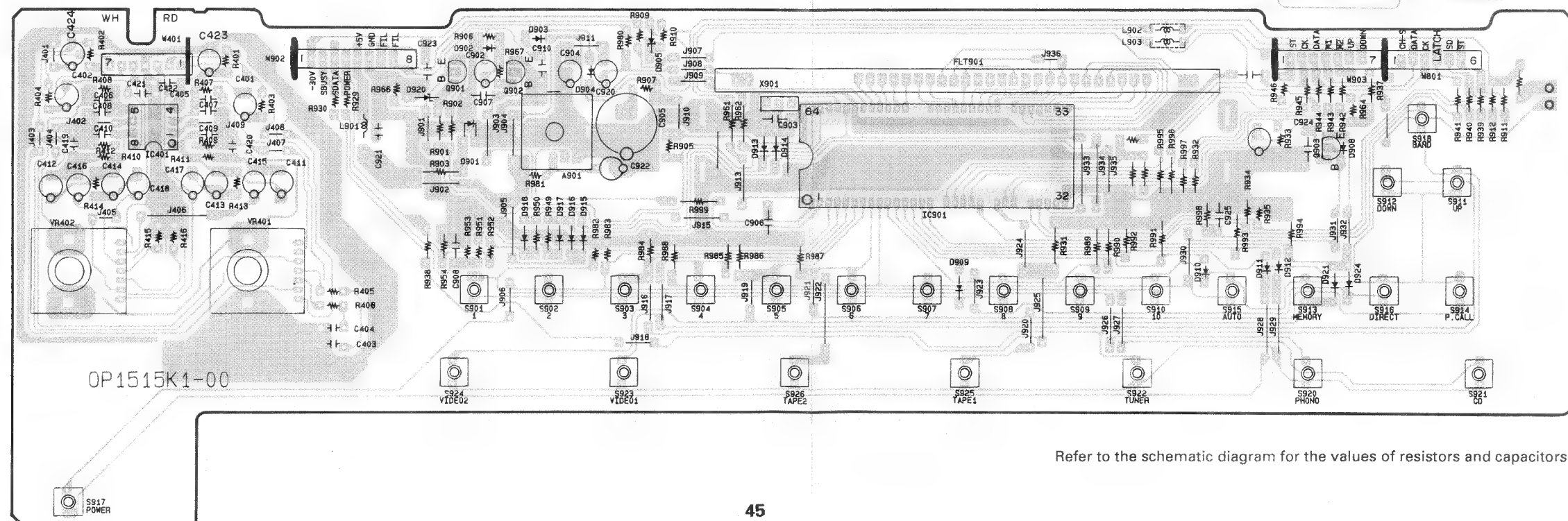
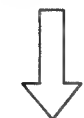


AC220-240V~ AC110-120V~



FM300Q 75μs 50μs  
AM10KHz AM9KHz  
FM100KHz FM50KHz  
DE-EMPHASIS  
CHANNEL SPACE

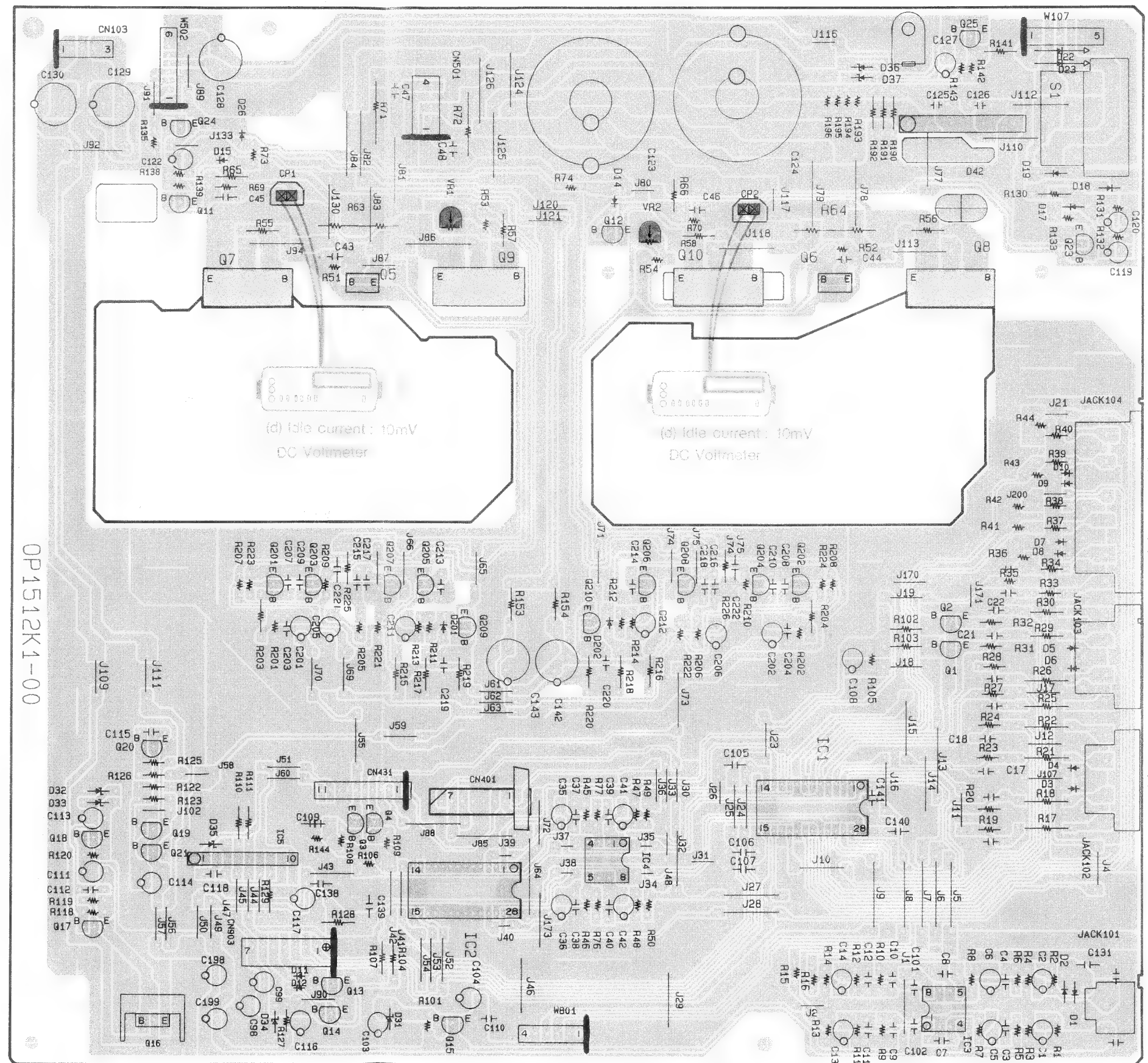
FRONT



Refer to the schematic diagram for the values of resistors and capacitors.



## 7



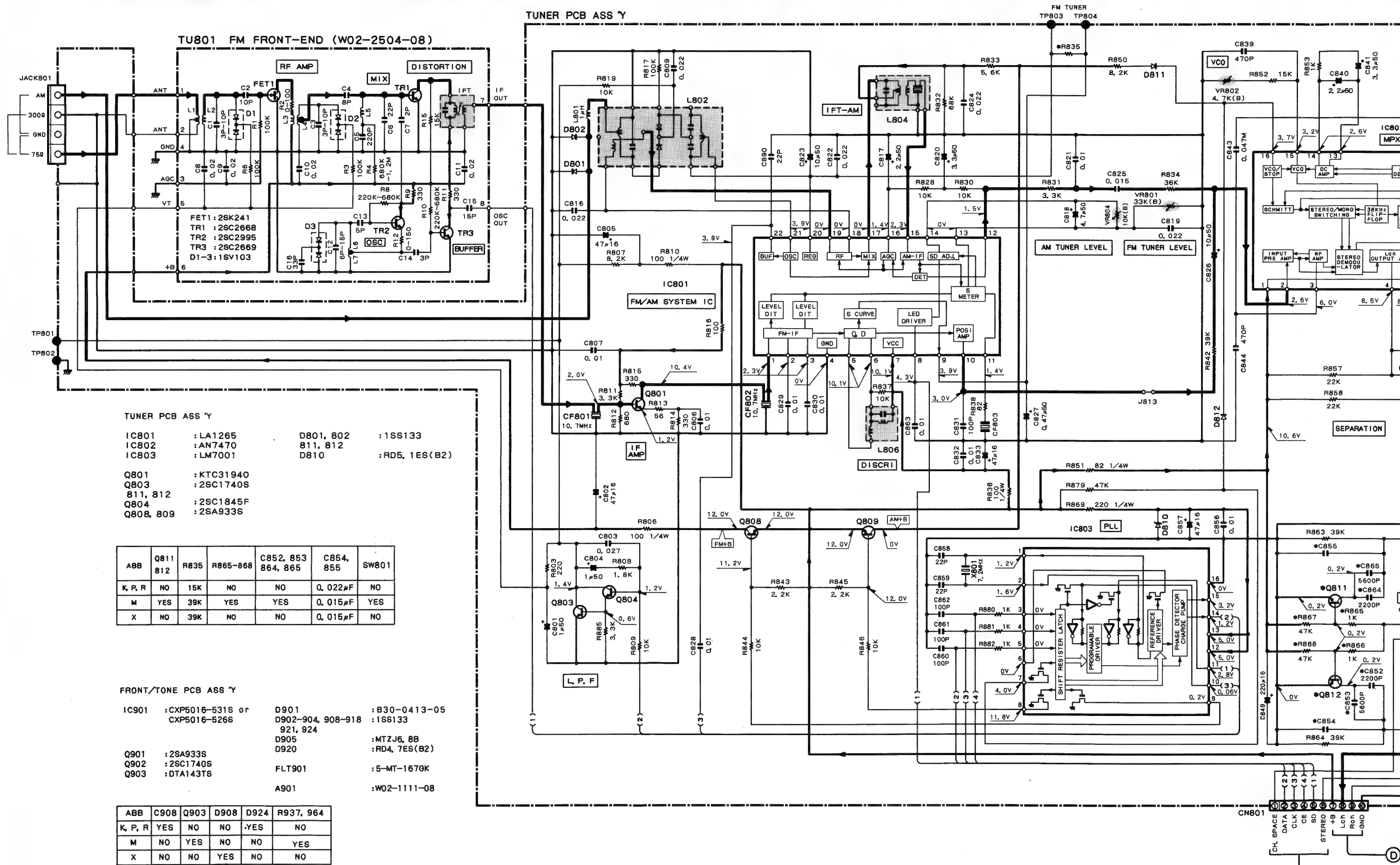
IMPEDANCE SELECTOR

A or B : LESS THAN 8Ω    A or B : 8Ω OR MORE

| CD    | TAPE 1 | TAPE 2    | VIDEO 1 | VIDEO 2 |
|-------|--------|-----------|---------|---------|
| INPUT | REC    | (MONITOR) | PLAY    | PLAY    |
|       |        | REC       | PLAY    | PLAY    |
|       |        |           | IN      | IN      |
|       |        |           |         | IN      |

PHONO  
INPUT

# EXCEPT



TUNER PCB ASS Y

|           |           |           |               |
|-----------|-----------|-----------|---------------|
| IC801     | :LA1265   | D801, 802 | :1SS133       |
| IC802     | :AN7470   | 811, 812  |               |
| IC803     | :LM7001   | D810      | :RD5, 1E6(B2) |
| Q801      | :KTC31940 |           |               |
| Q803      | :2SC1740S |           |               |
| 811, 812  |           |           |               |
| Q804      | :2SC1845F |           |               |
| Q808, 809 | :2SA933S  |           |               |

| ABB     | Q811<br>812 | R835 | R865-868 | C852, 853<br>864, 865 | C854,<br>855 | SW801 |
|---------|-------------|------|----------|-----------------------|--------------|-------|
| K, P, R | NO          | 15K  | NO       | NO                    | 0.022μF      | NO    |
| M       | YES         | 39K  | YES      | YES                   | 0.015μF      | YES   |
| X       | NO          | 39K  | NO       | NO                    | 0.015μF      | NO    |

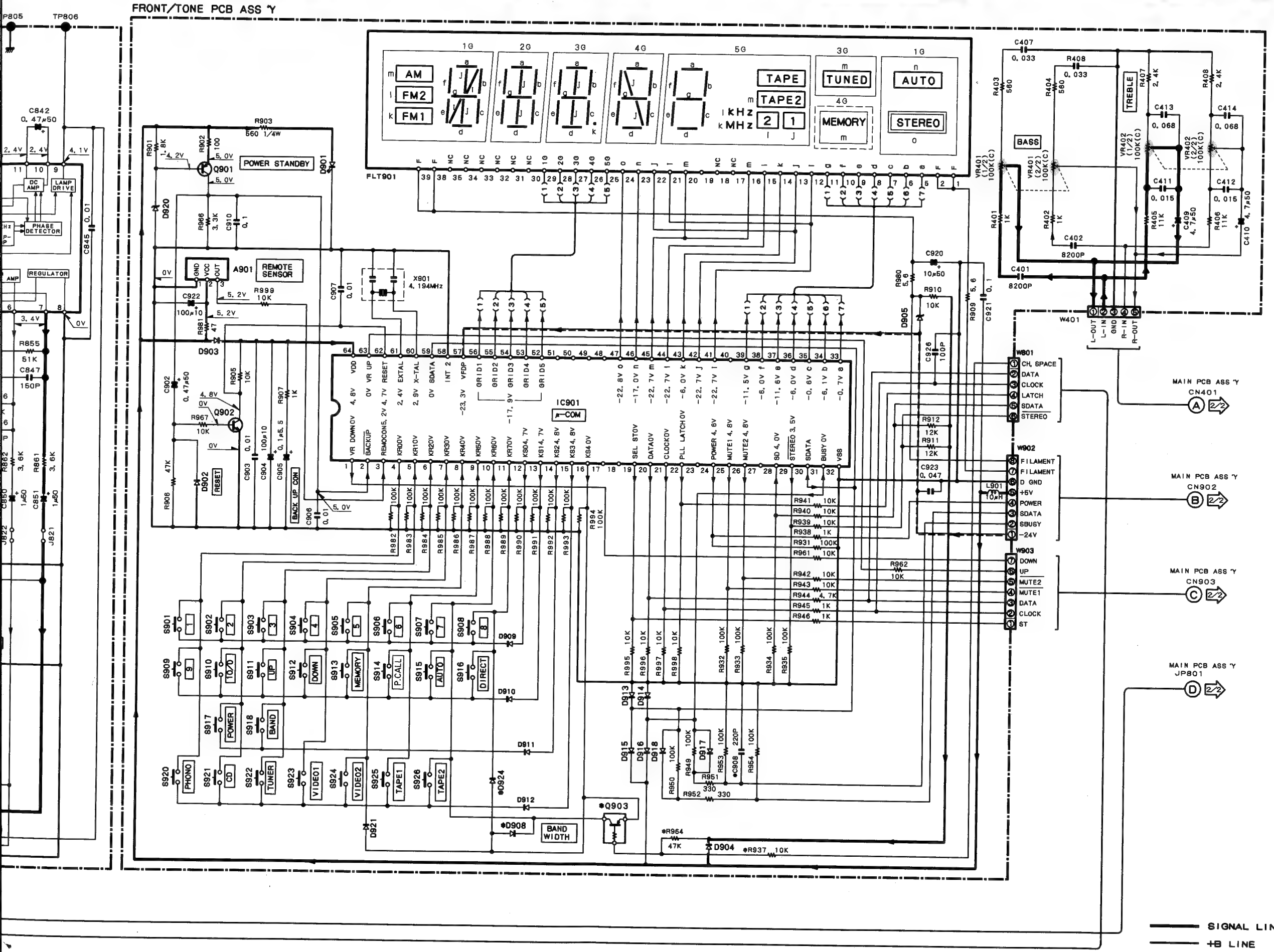
FRONT/TONE PCB ASS Y

|       |                                  |                   |               |
|-------|----------------------------------|-------------------|---------------|
| IC901 | :CXP5016-531S or<br>CXP5016-526S | D901              | :B30-0413-05  |
|       |                                  | D902-904, 908-918 | :1SS133       |
|       |                                  | 921, 924          |               |
|       |                                  | D905              | :MTZJ6, 8B    |
|       |                                  | D920              | :RD4, 7ES(B2) |
| Q901  | :2SA933S                         |                   |               |
| Q902  | :2SC1740S                        |                   |               |
| Q903  | :DTA143TS                        | FLT901            | :5-MT-1670K   |
|       |                                  | A901              | :W02-1111-08  |

| ABB     | C908 | Q903 | D908 | D924 | R937, 964 |
|---------|------|------|------|------|-----------|
| K, P, R | YES  | NO   | NO   | YES  | NO        |
| M       | NO   | YES  | NO   | NO   | YES       |
| X       | NO   | NO   | YES  | NO   | NO        |







- 2SA992
- 2SC1845
- 2SC2878
- 2SA1695
- DTA143TS
- DTC114ES
- 2SA933
- 2SA933S
- 2SC1740S
- 2SC4137
- NJM4558DD
- LM7001

• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

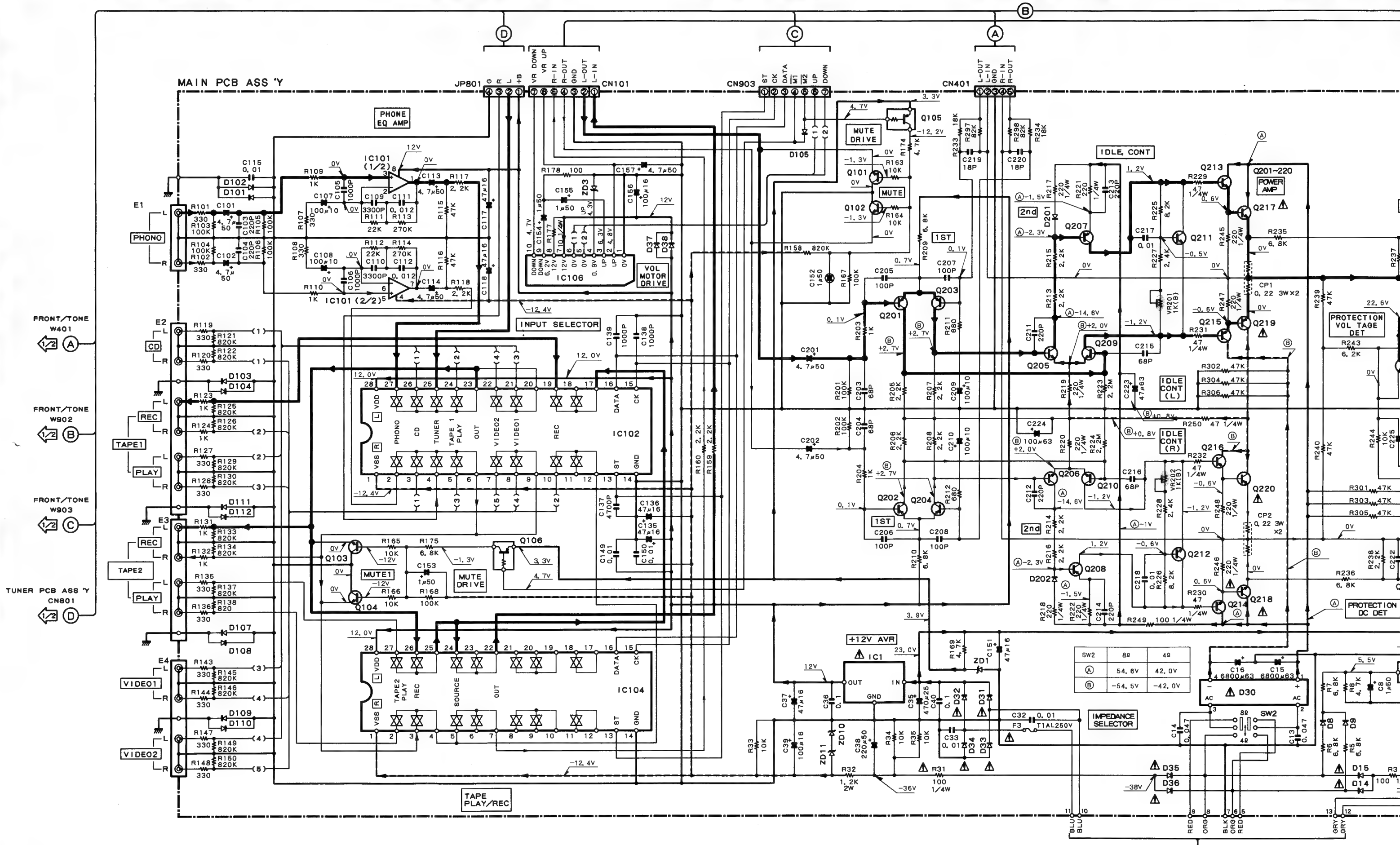
**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

SIGNAL LINE  
+B LINE  
-B LINE  
GND LINE

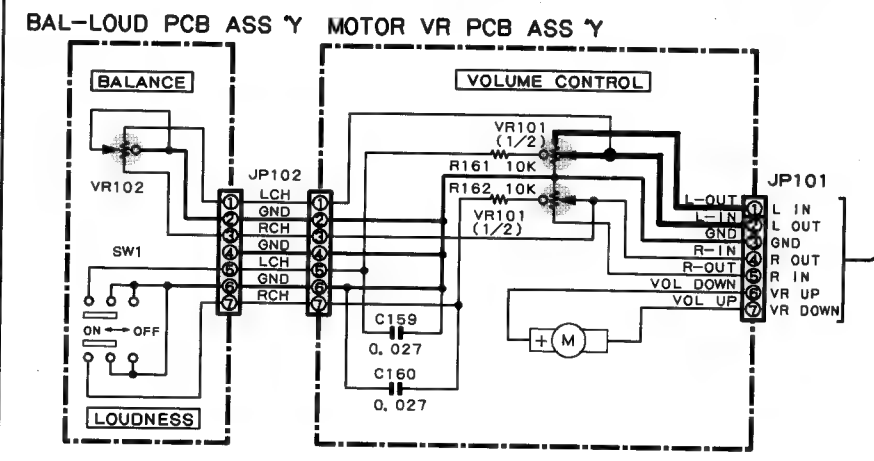
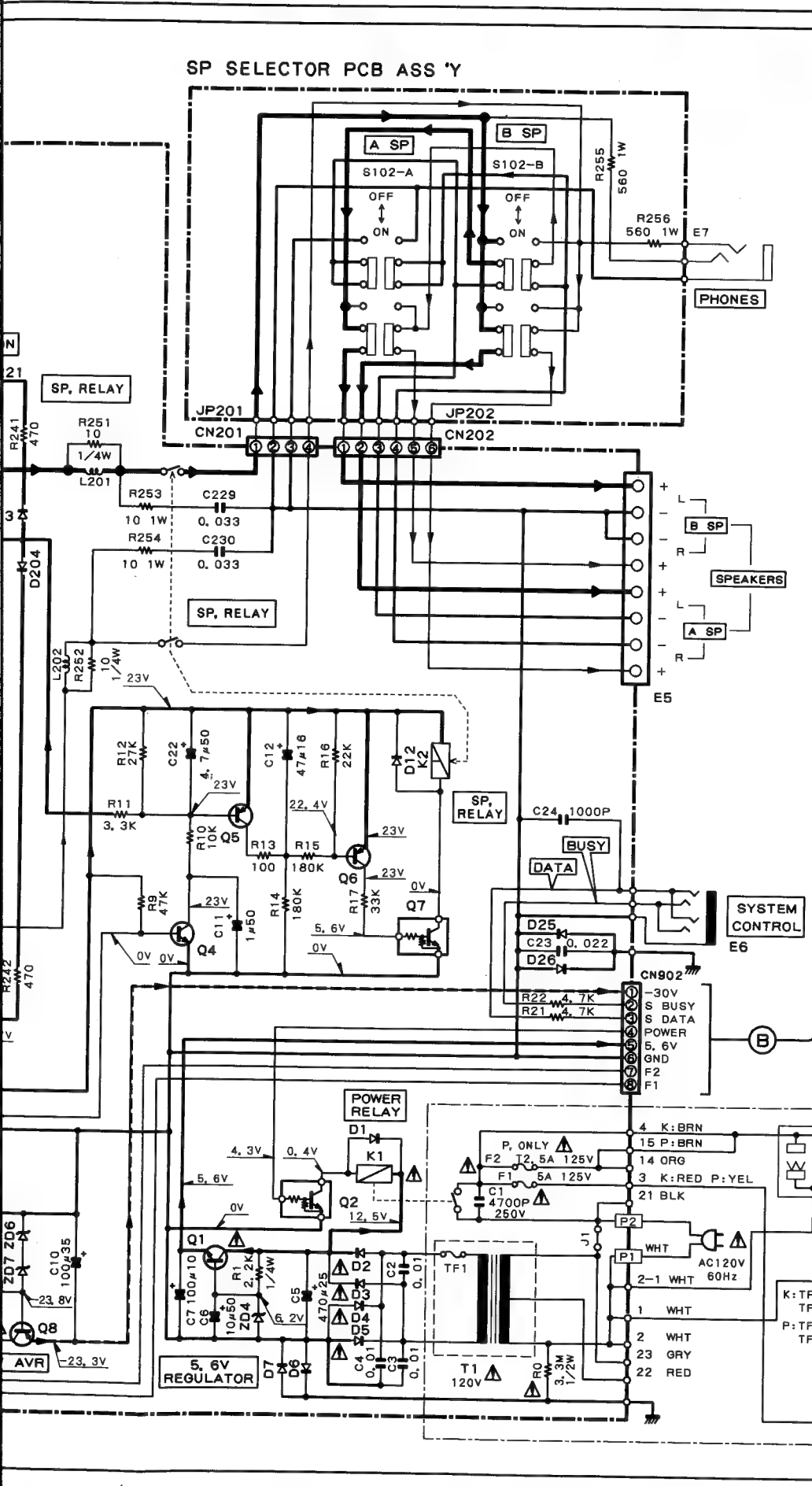
1/2 (Except E, T)  
Y05-2880-10

**KR-A4060**  
**KENWOOD**

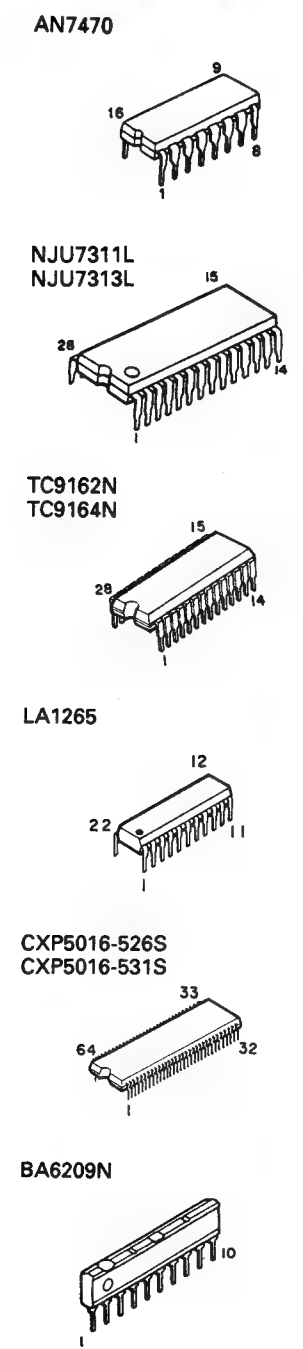
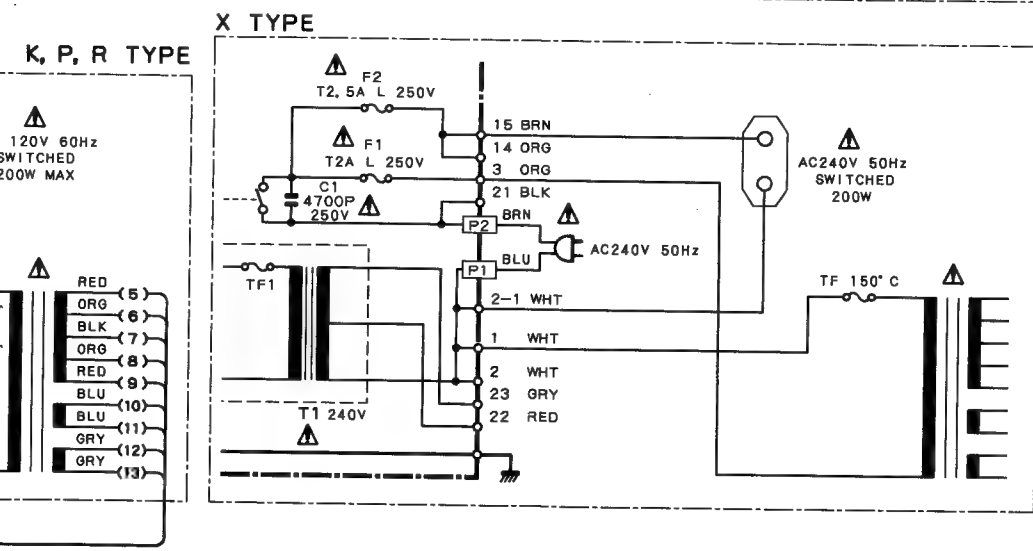
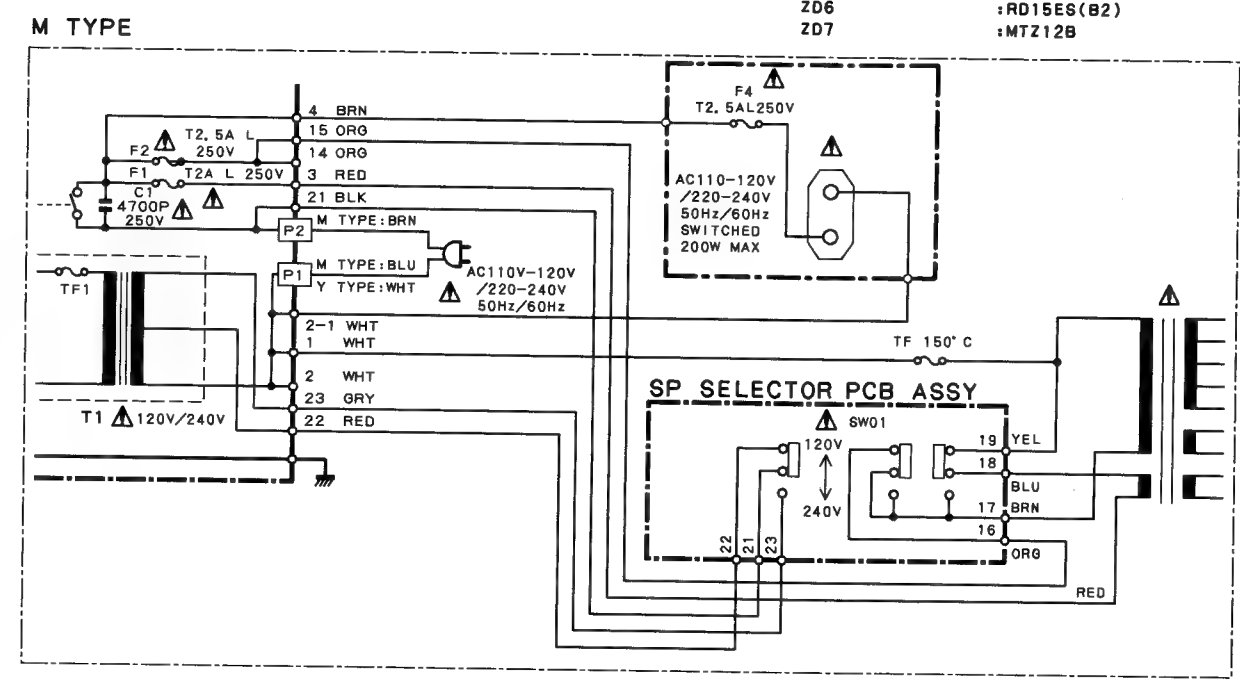








- |       |                       |
|-------|-----------------------|
| IC1   | : KIA78012AP          |
| IC101 | : NJM4558DD           |
| IC102 | : NJU7313L or TC9164N |
| IC104 | : NJU7311L or TC9162N |
| IC106 | : BA6209N             |
- 
- |                    |            |
|--------------------|------------|
| Q1, 213, 214       | : 2SC2316  |
| Q2, 3, 7           | : DTC114ES |
| Q4, 223, 224       | : 2SC1740S |
| Q5, 6              | : 2SA933   |
| Q8, 215, 216       | : 2SA916   |
| Q101-104           | : 2SC2878  |
| Q105, 106          | : DTA114TS |
| Q201-204, 207, 208 | : 2SA992   |
| Q205, 206, 209     | : 2SC1845  |
| Q210, 221, 222     | : 2SC4137  |
| Q211, 212          | : 2SA4468  |
| Q217, 218          | : 2SA1695  |
| Q219, 220          | : 2SA1695  |
- 
- |                     |              |
|---------------------|--------------|
| D1, 6-9, 12, 25, 26 | : 1SS131     |
| 37, 38, 101-105     |              |
| 107-112, 201-205    |              |
| D2-5, 14, 15, 31-36 | : 1N4002A    |
| O30                 |              |
| ZD1                 | : MTZJ3, 9B  |
| ZD3                 | : MTZJ5, 1B  |
| ZD4, 10, 11         | : MTZJ6, 2B  |
| ZD6                 | : RD15ES(B2) |
| ZD7                 | : MTZ12B     |



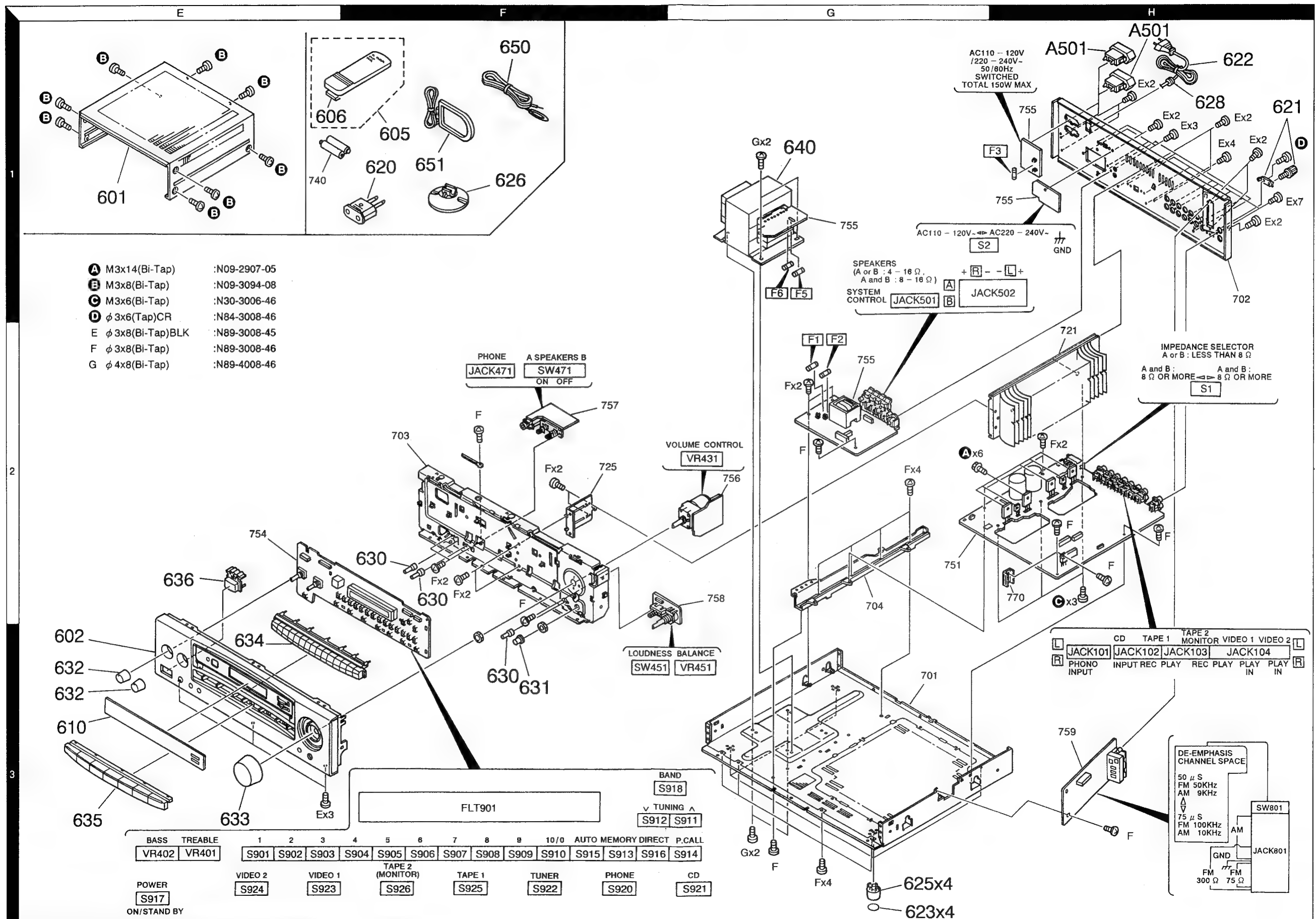
• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  $\Delta$  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

— SIGNAL LINE  
— GND LINE  
— +B LINE  
- - -B LINE

# KR-A5060 KR-A5060

## EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.



× New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

| Ref. No.<br>参照番号           | Address<br>位置 | Parts No.<br>部品番号 | Description<br>部品名 / 規格       | Re-<br>marks<br>備考 |
|----------------------------|---------------|-------------------|-------------------------------|--------------------|
| KR-A5060                   |               |                   |                               |                    |
| 601                        | 1E            | A01-3060-08       | METALLIC CABINET              | MX                 |
| 601                        | 1E            | A01-3150-08       | METALLIC CABINET              | KPR                |
| 602                        | 3E            | A60-0607-08       | FRONT PANEL                   |                    |
| 605                        | 1F            | A70-0985-08       | REMOTE CONTROL ASSY           |                    |
| 606                        | 1E            | A09-0170-08       | BATTERY COVER                 |                    |
| 610                        | 3E            | B10-2040-08       | FRONT GLASS                   |                    |
| -                          | -             | B46-0092-23       | WARRANTY CARD                 | K                  |
| -                          | -             | B46-0094-33       | WARRANTY CARD                 | X                  |
| -                          | -             | B46-0121-33       | WARRANTY CARD                 | P                  |
| -                          | -             | B60-1577-08       | INSTRUCTION MANUAL (ENGLISH)  | KXR                |
| -                          | -             | B60-1578-08       | INSTRUCTION MANUAL (ENG,FRE)  | P                  |
| -                          | -             | B60-1579-08       | INSTRUCTION MANUAL (ENG,CHI)  | M                  |
| -                          | -             | B60-1580-08       | INSTRUCTION MANUAL (ENGLISH)  | ET                 |
| -                          | -             | B60-1581-08       | INSTRUCTION MANUAL (FR,GU,NU) | E                  |
| -                          | -             | B60-1582-08       | INSTRUCTION MANUAL (SPA,ITA)  | E                  |
| -                          | -             | B60-1619-08       | INSTRUCTION MANUAL (SPANISH)  | MR                 |
| 620                        | 1F            | E03-0115-05       | AC PLUG ADAPTER               |                    |
| 621                        | 1H            | E21-0023-08       | GND TERMINAL                  | M                  |
| 622                        | 1H            | E30-0459-05       | AC POWER CORD                 |                    |
| 622                        | 1H            | E30-0974-05       | AC POWER CORD                 | M                  |
| 622                        | 1H            | E30-1341-05       | AC POWER CORD                 | KPR                |
| AS01                       | 1H            | E03-0055-05       | AC OUTLET                     | X                  |
| AS01                       | 1H            | E03-0144-08       | AC OUTLET                     | M                  |
| 623                        | 3G            | G13-0267-08       | CUSHION                       | KPR                |
| FOOT                       |               |                   |                               |                    |
| ITEM CATONBOX              |               |                   |                               |                    |
| ITEM CATONBOX              |               |                   |                               |                    |
| POLYSTYRENE FOAMED FIXTURE |               |                   |                               |                    |
| PROTECTION BAG (ACCESSORY) |               |                   |                               |                    |
| PROTECTION BAG (MANUAL)    |               |                   |                               |                    |
| PROTECTION BAG (UNIT)      |               |                   |                               |                    |
| 625                        | 3G            | T02-1107-08       | ANTENNA HOLDER                |                    |
| 626                        | 1F            | J19-2815-04       | AC CORD BUSHING               |                    |
| 628                        | 1H            | J42-0198-08       | KN08 LOUDNESS SPEAKERS        | KPR                |
| 630                        | 2F, 3F        | K27-2166-08       | KN08 BALANCE                  | M                  |
| 631                        | 3F            | K29-4444-08       | KN08 BASS, TREBLE             | X                  |
| 632                        | 3E            | K29-5952-08       | KN08 VOLUME                   |                    |
| 633                        | 3E            | K29-5953-08       | KN08 PRESET (10KEY)           |                    |
| 634                        | 3E            | K29-5954-08       | KN08 POWER                    |                    |
| 635                        | 3E            | K29-5955-08       | KN08 POWER                    |                    |
| 636                        | 2E            | K29-5956-08       | KN08 POWER                    |                    |
| 640                        | 1G            | L07-0971-08       | TRANSFORMER                   |                    |
| 640                        | 1G            | L07-0972-08       | TRANSFORMER                   |                    |
| 640                        | 1G            | L07-0973-08       | TRANSFORMER                   |                    |
| A                          | 2G            | N09-2907-05       | BINDING HEAD TAPITTE SCREW    |                    |
| B                          | 1E            | N09-3094-08       | BINDING HEAD TAPITTE SCREW    |                    |
| C                          | 2H            | N30-3006-46       | SCREW                         |                    |
| D                          | 1H            | N84-3008-46       | TAPITTE SCREW                 |                    |
| E                          | 3E, 1H        | N89-3008-45       | BINDING HEAD TAPITTE SCREW    |                    |
| F                          | 2F, 2H        | N89-3008-46       | BINDING HEAD TAPITTE SCREW    |                    |

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| Ref. No.<br>参照番号 | Address<br>位置 | Parts No.<br>部品番号 | Description<br>部品名 / 規格 | Re-<br>marks<br>備考 |
|------------------|---------------|-------------------|-------------------------|--------------------|
| C215, 216        |               | CC45CHI1H82J      | CERAMIC                 |                    |
| C217, 218        |               | CC45CHI1H350J     | CERAMIC                 |                    |
| C219, 220        |               | CC45CHI1H221J     | CERAMIC                 |                    |
| C401, 402        |               | CC92FMI1H010M     | ELECTR0                 |                    |
| C403, 404        |               | CC92FMI1H73J      | MYLAR                   |                    |
| C405, 406        |               | CC45CHI1H221J     | CERAMIC                 |                    |
| C407-410         |               | CC45SL1H470J      | CERAMIC                 |                    |
| C411-414         |               | CC92FMI1H010M     | ELECTR0                 |                    |
| C415-418         |               | CC92FMI1H47M      | ELECTR0                 |                    |
| C419, 420        |               | CC92FMI1H47J      | MYLAR                   |                    |
| C421, 422        |               | CC45F1H103M       | CERAMIC                 |                    |
| C423, 424        |               | CC92FMI1H22J      | CERAMIC                 |                    |
| C432             |               | CC45SL1H104J      | CERAMIC                 |                    |
| C451, 452        |               | CC92FMI1H27J      | MYLAR                   |                    |
| C507             |               | CC92FMI1C220M     | ELECTR0                 |                    |
| C508             |               | CC92FMI1C220M     | ELECTR0                 |                    |
| C509             |               | CC92FMI1H47M      | ELECTR0                 |                    |
| C510, 511        |               | CC92FMI1C330M     | ELECTR0                 |                    |
| C512             |               | CC92FMI1H010M     | ELECTR0                 |                    |
| C513, 514        |               | CC92FMI1E221M     | ELECTR0                 |                    |
| C515, 516        |               | CC45F1H103M       | CERAMIC                 |                    |
| C518             |               | CC45F1H103M       | CERAMIC                 |                    |
| C519             |               | KHR-QM4726M6      | CERAMIC                 |                    |
| C520             |               | CC45CHI1H02J      | CERAMIC                 |                    |
| C801             |               | CC92FMI1H010M     | ELECTR0                 |                    |
| C802             |               | CC92FMI1C470M     | ELECTR0                 |                    |
| C803             |               | CC92FMI1H27J      | MYLAR                   |                    |
| C804             |               | CC92FMI1H010M     | ELECTR0                 |                    |
| C805             |               | CC45F1H103M       | CERAMIC                 |                    |
| C806, 807        |               | CC45F1H103M       | CERAMIC                 |                    |
| C809             |               | CC45F1H223Z       | CERAMIC                 |                    |
| C816             |               | CC45F1H223Z       | CERAMIC                 |                    |
| C817             |               | CC92FMI1H22M      | ELECTR0                 |                    |
| C818             |               | CC92FMI1H22M      | ELECTR0                 |                    |
| C819             |               | CC45F1H223Z       | CERAMIC                 |                    |
| C820             |               | CC92FMI1H3R3M     | ELECTR0                 |                    |
| C821             |               | CC45F1H103M       | CERAMIC                 |                    |
| C822             |               | CC45F1H223Z       | CERAMIC                 |                    |
| C823             |               | CC92FMI1H010M     | ELECTR0                 |                    |
| C824             |               | CC45F1H223Z       | CERAMIC                 |                    |
| C825             |               | CC92FMI1H153J     | MYLAR                   |                    |
| C826             |               | CC92FMI1H47M      | ELECTR0                 |                    |
| C827             |               | CC92FMI1H47M      | ELECTR0                 |                    |
| C828-830         |               | CC45F1H103M       | CERAMIC                 |                    |
| C831             |               | CC45CHI1H101J     | CERAMIC                 |                    |
| C832             |               | CC45F1H103M       | CERAMIC                 |                    |
| C833             |               | CC92FMI1C470M     | ELECTR0                 |                    |
| C839             |               | CC92FMI1H471J     | POLYSTY                 |                    |
| C840             |               | CC92FMI1H2R2M     | ELECTR0                 |                    |
| C841             |               | CC92FMI1H3R3M     | ELECTR0                 |                    |
| C842             |               | CC92FMI1H47M      | ELECTR0                 |                    |
| C843             |               | CC92FMI1H473J     | MYLAR                   |                    |
| C844             |               | CC45F1H471K       | CERAMIC                 |                    |
| C845             |               | CC45F1H103M       | CERAMIC                 |                    |
| C846, 847        |               | CC45SL1H151K      | CERAMIC                 |                    |

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|------------------|---------------|-------------------|----------------------------|--------------------|
| G                | 1G, 3G        | N89-4008-46       | BINDING HEAD TAPITTE SCREW |                    |
| 650              | 1F            | T90-0182-05       | T TYPE ANTENNA             |                    |
| 651              | 1F            | T90-0184-08       | LOOP ANTENNA               |                    |
| ELECTRIC PARTS   |               |                   |                            |                    |
| D901             |               | B30-0413-05       | LED (LT4213)(RED)POWER     |                    |
| C1, 2            |               | CC04KW1H100M      | ELECTR0                    |                    |
| C3, 4            |               | CC45CHI1H221J     | CERAMIC                    |                    |
| C5, 6            |               | CC04KW1A101M      | ELECTR0                    |                    |
| C7, 8            |               | CC45CHI1H02J      | CERAMIC                    |                    |
| C9, 10           |               | CC92FMI1H123J     | MYLAR                      |                    |
| C11, 12          |               | CC92FMI1H332J     | MYLAR                      |                    |
| C13, 14          |               | CC04KW1H47M       | ELECTR0                    |                    |
| C17, 18          |               | CC45CHI1H221J     | CERAMIC                    |                    |
| C21, 22          |               | CC45CHI1H221J     | CERAMIC                    |                    |
| C31-36           |               | CC04KW1H010M      | ELECTR0                    |                    |
| C37-40           |               | CC45SL1H101J      | CERAMIC                    |                    |
| C41, 42          |               | CC04KW1H47M       | ELECTR0                    |                    |
| C43-46           |               | CC45SL1H103K      | CERAMIC                    |                    |
| C47, 48          |               | CC92FMI1H393J     | MYLAR                      |                    |
| C98, 99          |               | CC04KW1H47M       | ELECTR0                    |                    |
| C101, 102        |               | CC45SL1H103K      | CERAMIC                    |                    |
| C103             |               | CC04KW1C470M      | ELECTR0                    |                    |
| C104             |               | CC04KW1H100M      | ELECTR0                    |                    |
| C105             |               | CC45CHI1H02J      | CERAMIC                    |                    |
| C106, 107        |               | CC45SL1H331K      | CERAMIC                    |                    |
| C108             |               | CC04KW1H010M      | ELECTR0                    |                    |
| C110             |               | CC45SL1H103K      | CERAMIC                    |                    |
| C111             |               | CC04KW1H220M      | ELECTR0                    |                    |
| C112             |               | CC45CHI1H52J      | CERAMIC                    |                    |
| C113             |               | CC04KW1C470M      | ELECTR0                    |                    |
| C114             |               | CC04KW1H220M      | ELECTR0                    |                    |
| C115             |               | CC45CHI1H02J      | CERAMIC                    |                    |
| C116             |               | CC04KW1A101M      | ELECTR0                    |                    |
| C117             |               | CC04KW1C470M      | ELECTR0                    |                    |
| C118             |               | CC45F1H104J       | CERAMIC                    |                    |
| C119, 120        |               | CC04KW2A2R2M      | ELECTR0                    |                    |
| C121             |               | CC04KW1H100M      | ELECTR0                    |                    |
| C122             |               | CC04KW2A100M      | ELECTR0                    |                    |
| C123, 124        |               | C90-3565-08       | ELECTR0                    |                    |
| C125, 126        |               | CC45FSL2H103Z     | CERAMIC                    |                    |
| C127             |               | CC04KW1J470M      | ELECTR0                    |                    |
| C128-130         |               | CC04KW1V471M      | ELECTR0                    |                    |
| C131             |               | CC45SL1H103K      | CERAMIC                    |                    |
| C136-141         |               | CC45SL1H103K      | CERAMIC                    |                    |
| C142, 143        |               | CC04KW2A470M      | ELECTR0                    |                    |
| C145, 146        |               | CC45FSL2H103Z     | CERAMIC                    |                    |
| C198, 199        |               | CC04KW1H220M      | ELECTR0                    |                    |
| C201, 202        |               | CC04KW1H010M      | ELECTR0                    |                    |
| C203, 204        |               | CC45CHI1H01J      | CERAMIC                    |                    |
| C205, 206        |               | CC04KW1A101M      | ELECTR0                    |                    |
| C207-210         |               | CC45CHI1H01J      | CERAMIC                    |                    |
| C211, 212        |               | CC04KW2A010M      | ELECTR0                    |                    |
| C213, 214        |               | CC45SL1H330J      | CERAMIC                    |                    |

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|------------------|---------------|-------------------|----------------------------------|--------------------|
| C849             |               | CC04KW1C221M      | ELECTR0                          |                    |
| C850, 851        |               | CC04KW1H010M      | ELECTR0                          |                    |
| C852             |               | CC92FMI1H222J     | MYLAR                            |                    |
| C853             |               | CC92FMI1H562J     | MYLAR                            |                    |
| C854, 855        |               | CC92FMI1H153J     | MYLAR                            |                    |
| C854, 855        |               | CC92FMI1H223J     | MYLAR                            |                    |
| C856             |               | CC45F1H103M       | CERAMIC                          |                    |
| C857             |               | CC04KW1C470M      | ELECTR0                          |                    |
| C858, 859        |               | CC45CHI1H20J      | CERAMIC                          |                    |
| C860-862         |               | CC45CHI1H01J      | CERAMIC                          |                    |
| C863             |               | CC45F1H103M       | CERAMIC                          |                    |
| C864             |               | CC92FMI1H222J     | MYLAR                            |                    |
| C865             |               | CC92FMI1H562J     | MYLAR                            |                    |
| C890             |               | CC45CHI1H20J      | CERAMIC                          |                    |
| C902             |               | CC04KW1HR47M      | ELECTR0                          |                    |
| C903             |               | CC45F1H103M       | CERAMIC                          |                    |
| C904             |               | CC04KW1A101M      | ELECTR0                          |                    |
| C905             |               | C90-1827-05       | BACKUP                           |                    |
| C906, 907        |               | CC45F1H103M       | CERAMIC                          |                    |
| C908             |               | CC45CHI1H221J     | CERAMIC                          |                    |
| C909             |               | CC04KW1H47M       | ELECTR0                          |                    |
| C910             |               | CC45F1H104Z       | CERAMIC                          |                    |
| C920             |               | CC04KW1H010M      | ELECTR0                          |                    |
| C921             |               | CC45F1H104Z       | CERAMIC                          |                    |
| C922             |               | CC04KW1A101M      | ELECTR0                          |                    |
| C923             |               | CC45SL1H473K      | CERAMIC                          |                    |
| C925             |               | CC45SL1H223K      | CERAMIC                          |                    |
| AS01             | 1D            | B03-0144-08       | AC OUTLET                        |                    |
| JACK101          |               | E70-0035-08       | TERMINAL BOARD PHONO             |                    |
| JACK102          |               | E70-0036-08       | TERMINAL BOARD CD, TAPE1 REC     |                    |
| JACK103          |               | E70-0036-08       | TERMINAL BOARD TAPE1 PLAY, TAPE2 |                    |
| JACK104          |               | E63-0118-08       | TERMINAL BOARD TAPE2, VIDEO1,2   |                    |
| JACK471          |               | E11-0263-08       | PHONE JACK                       |                    |
| JACK501          |               | E11-0188-05       | PHONE JACK                       |                    |
| JACK502          |               | E70-0004-08       | TERMINAL BOARD SPEAKERS          |                    |
| JACK801          |               | E70-0005-08       | TERMINAL BOARD ANTENNA           |                    |
| F1               |               | F04-5022-05       | FUSE UL/CSA 5A(125V)             |                    |
| F2               |               | F05-2525-05       | FUSE T2, 5A(250V)                |                    |
| F3               |               | F06-2525-05       | FUSE UL/CSA 2.5A(125V)           |                    |
| F5, 6            |               | F05-5016-05       | FUSE 0.5A(250V)                  |                    |
| F5, 6            |               | F50-0049-08       | FUSE UL/CSA 0.5A(250V)           |                    |
| F1, 2, 3         |               | F05-2525-05       | FUSE T2, 5A(250V)                |                    |
| -                |               | J13-0084-08       | FUSE HOLDER                      |                    |
| -                |               | J13-0084-08       | FUSE HOLDER                      |                    |
| CF801, 802       |               | L72-0531-05       | CERAMIC FILTER                   |                    |
| CF803            |               | L72-0096-05       | CERAMIC FILTER                   |                    |
| L501, 502        |               | L39-0085-05       | COIL                             |                    |
| L801             |               | L40-1091-17       | SMALL FIXED INDUCTOR 1UH         |                    |
| L802             |               | L39-0189-05       | COIL                             |                    |
| L804             |               | L30-0488-05       | IPT-AM                           |                    |
| L806             |               | L30-0439-05       | IPT-FH                           |                    |
| L901             |               | L40-1001-17       | SMALL FIXED INDUCTOR 10UH        |                    |
| TS01             |               | L07-0778-08       | TRANS FORMER                     |                    |

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# KR-A5060

## PARTS LIST

# KR-A5060

## PARTS LIST

× New Parts

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5

| Ref. No.<br>参照番号                             | Address<br>位置 | Parts No.<br>部品番号                                                           | Description<br>部品名 / 規格                                                                                            | Desti-<br>nation<br>仕 | Re-<br>marks<br>備考 |
|----------------------------------------------|---------------|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------|
| T501<br>T501<br>X801<br>X901                 |               | L07-0789-08<br>L07-0790-08<br>L77-1122-05<br>L78-0209-05                    | TRANS FORMER<br>CRYSTAL RESONATOR 7.2MHz<br>RESONATOR 4.19MHz                                                      | X<br>M                |                    |
| F                                            | 2D            | N89-3008-46                                                                 | BINDING HEAD TAPITE SCREW                                                                                          |                       |                    |
| R55-58<br>R63-64<br>R65-66<br>R71-72<br>R115 |               | RD14GB2E220J<br>R90-0187-05<br>RD14GB2E332J<br>RN14BK3A100J<br>RD14GB2E010J | FL-PR00F RD 22 J 1/4W<br>MULTI-COMP 0.22X2 K 5W<br>FL-PR00F RD 3.3K J 1/4W<br>RN 10 J 1W<br>FL-PR00F RD 1.0 J 1/4W |                       |                    |
| R116,117                                     |               | RN14BK3D680J                                                                | RN 68 J 2W                                                                                                         |                       |                    |
| R121                                         |               | RD14GB2E010J                                                                | FL-PR00F RD 1.0 J 1/4W                                                                                             |                       |                    |
| R128                                         |               | RD14GB2E101J                                                                | FL-PR00F RD 100 J 1/4W                                                                                             |                       |                    |
| R129                                         |               | RD14GB2E100J                                                                | FL-PR00F RD 10 J 1/4W                                                                                              |                       |                    |
| R130                                         |               | RD14GB2E101J                                                                | FL-PR00F RD 100 J 1/4W                                                                                             |                       |                    |
| R141                                         |               | RD14GB2E101J                                                                | FL-PR00F RD 100 J 1/4W                                                                                             |                       |                    |
| R153,154                                     |               | RD14GB2E470J                                                                | FL-PR00F RD 47 J 1/4W                                                                                              |                       |                    |
| R215,216                                     |               | RD14GB2E151J                                                                | FL-PR00F RD 150 J 1/4W                                                                                             |                       |                    |
| R217-220                                     |               | RD14GB2E221J                                                                | FL-PR00F RD 220 J 1/4W                                                                                             |                       |                    |
| R471,472                                     |               | RN14BK3A561J                                                                | RN 560 J 1W                                                                                                        |                       |                    |
| R501-504                                     |               | RD14GB2E220J                                                                | FL-PR00F RD 22 J 1/4W                                                                                              |                       |                    |
| R519                                         |               | RD14GB2H335J                                                                | RD 3.3M J 1/2W                                                                                                     |                       |                    |
| R806                                         |               | RD14GB2E101J                                                                | FL-PR00F RD 100 J 1/4W                                                                                             |                       |                    |
| R810                                         |               | RD14GB2E101J                                                                | FL-PR00F RD 100 J 1/4W                                                                                             |                       |                    |
| R836                                         |               | RD14GB2E101J                                                                | FL-PR00F RD 100 J 1/4W                                                                                             |                       |                    |
| R851                                         |               | RD14GB2E220J                                                                | FL-PR00F RD 82 J 1/4W                                                                                              |                       |                    |
| R869                                         |               | RD14GB2E221J                                                                | FL-PR00F RD 220 J 1/4W                                                                                             |                       |                    |
| V81-2                                        |               | R12-1066-05                                                                 | TRIMMING POT. IDLE ADJ. 1K                                                                                         |                       |                    |
| V8401,402                                    |               | R39-0003-08                                                                 | POTENTIOMETER BASS TREBLE 10KB                                                                                     |                       |                    |
| V8431                                        |               | R39-0001-08                                                                 | POTENTIOMETER VOLUME 100KB X3                                                                                      |                       |                    |
| V8451                                        |               | R10-5071-08                                                                 | POTENTIOMETER BALANCE                                                                                              |                       |                    |
| V8801                                        |               | R12-3166-08                                                                 | TRIM POT. 33KB FM TUNE LEVEL                                                                                       |                       |                    |
| V8802                                        |               | R12-1053-05                                                                 | TRIM POT. 4.7KB VC0                                                                                                |                       |                    |
| V8804                                        |               | R12-3071-05                                                                 | TRIM POT. 10KB AM TUNE LEVEL                                                                                       |                       |                    |
| K501                                         |               | S51-2092-05                                                                 | MAGNETIC RELAY POWER                                                                                               |                       |                    |
| K502                                         |               | S76-0032-08                                                                 | MAGNETIC RELAY SPEAKER                                                                                             |                       |                    |
| S1                                           |               | S62-0032-08                                                                 | SLIDE SWITCH IMPEDANCE SEL                                                                                         |                       |                    |
| S2                                           |               | S31-3010-05                                                                 | SLIDE SWITCH VOLTAGE SELECT                                                                                        |                       |                    |
| S901-926                                     |               | S70-0030-08                                                                 | TACT SWITCH KEY BOARD                                                                                              |                       |                    |
| SW451                                        |               | S68-0040-08                                                                 | PUSH SWITCH LOUDNESS                                                                                               |                       |                    |
| SW471                                        |               | S62-0033-08                                                                 | PUSH SWITCH SPEAKERS                                                                                               |                       |                    |
| SW801                                        |               | S62-0012-08                                                                 | SLIDE SWITCH CH. SPACE                                                                                             |                       |                    |
| D1-12<br>D14-15<br>D17-19<br>D22-23<br>D26   |               | 1SS131<br>1SS131<br>1SS131<br>1N4002<br>1SS131                              | DIODE<br>DIODE<br>DIODE<br>DIODE<br>DIODE                                                                          |                       |                    |
| D31                                          |               | RD13ES(B2)                                                                  | ZENER DIODE                                                                                                        |                       |                    |
| D32                                          |               | MTZJ6.2B                                                                    | ZENER DIODE                                                                                                        |                       |                    |
| D33                                          |               | MTZJ8.2B                                                                    | ZENER DIODE                                                                                                        |                       |                    |
| D34                                          |               | MTZJ3.9B                                                                    | ZENER DIODE                                                                                                        |                       |                    |
| D35                                          |               | RD5-1ES(B2)                                                                 | ZENER DIODE                                                                                                        |                       |                    |
| D36-37                                       |               | MTZ12B(B2)                                                                  | ZENER DIODE                                                                                                        |                       |                    |

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EXCEPT E

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6

| Ref. No.<br>参照番号                                  | Address<br>位置 | Parts No.<br>部品番号                               | Description<br>部品名 / 規格                   | Desti-<br>nation<br>仕 | Re-<br>marks<br>備考 |
|---------------------------------------------------|---------------|-------------------------------------------------|-------------------------------------------|-----------------------|--------------------|
| D42<br>D43-46<br>D201-202<br>D501-502<br>D503-508 |               | DSFB20<br>1N4002<br>1SS133<br>1N4002A<br>1SS133 | DIODE<br>DIODE<br>DIODE<br>DIODE<br>DIODE |                       |                    |
| D509                                              |               | 1N4002A                                         | DIODE                                     |                       |                    |
| D510                                              |               | MTZJ6.2B                                        | ZENER DIODE                               |                       |                    |
| D511-514                                          |               | 1N4002A                                         | DIODE                                     |                       |                    |
| D515-516                                          |               | 1SS133                                          | DIODE                                     |                       |                    |
| D801-802                                          |               | 1SS133                                          | DIODE                                     |                       |                    |
| D810                                              |               | RD5-1ES(B2)                                     | ZENER DIODE                               |                       |                    |
| D811-812                                          |               | 1SS133                                          | DIODE                                     |                       |                    |
| D902-904                                          |               | 1SS133                                          | DIODE                                     |                       |                    |
| D905                                              |               | MTZJ6.8B                                        | ZENER DIODE                               |                       |                    |
| D908                                              |               | 1SS133                                          | ZENER DIODE                               |                       |                    |
| D909-918                                          |               | 1SS133                                          | DIODE                                     |                       |                    |
| D920                                              |               | RD4-7ES(B2)                                     | ZENER DIODE                               |                       |                    |
| D921                                              |               | 1SS133                                          | DIODE                                     |                       |                    |
| D924                                              |               | 1SS133                                          | DIODE                                     |                       |                    |
| FL901                                             |               | 5-WT-1670K                                      | FLUORESCENT INDICATOR TUBE                |                       |                    |
| IC1                                               |               | TC9144N                                         | IC(16CH BILATERAL SELECTOR SW)            |                       |                    |
| IC2                                               |               | TC9162N                                         | IC(ANALOG SWITCH ARRAY)                   |                       |                    |
| IC3-4                                             |               | NJM456500                                       | IC(OP AMP X2)                             |                       |                    |
| IC5                                               |               | BA6209N                                         | IC(MOTOR DRIVER)                          |                       |                    |
| IC401                                             |               | NJM456500                                       | IC(OP AMP X2)                             |                       |                    |
| IC501                                             |               | UPC1237HA                                       | IC(POWER AMP)                             |                       |                    |
| IC801                                             |               | LA1265                                          | IC(FM/AM TUNER)                           |                       |                    |
| IC802                                             |               | AN7470                                          | IC(FM MPX)                                |                       |                    |
| IC803                                             |               | LM7001                                          | IC(PLL FREQUENCY SYNTHESIZER)             |                       |                    |
| IC810                                             |               | UPC78L05                                        | IC(VOLTAGE REGULATOR +5V)                 |                       |                    |
| IC901                                             |               | CXP5016-526S                                    | IC(4bit MICROPROCESSOR)                   |                       |                    |
| IC901                                             | *             | CXP5016-531S                                    | IC(4bit MICROPROCESSOR)                   |                       |                    |
| Q1-4                                              |               | 2SC2878B                                        | TRANSISTOR                                |                       |                    |
| Q5-6                                              |               | 2SC4137                                         | TRANSISTOR                                |                       |                    |
| Q7-8                                              | *             | 2SD2222                                         | TRANSISTOR                                |                       |                    |
| Q9-10                                             | *             | 2SB1470                                         | TRANSISTOR                                |                       |                    |
| Q11-12                                            |               | 2SC1845F                                        | TRANSISTOR                                |                       |                    |
| Q13-14                                            |               | DTA114TS                                        | DIGITAL TRANSISTOR                        |                       |                    |
| Q15                                               |               | 2SC2235Y                                        | TRANSISTOR                                |                       |                    |
| Q16                                               |               | 2SC1845F                                        | TRANSISTOR                                |                       |                    |
| Q17-18                                            |               | 2SA992F                                         | TRANSISTOR                                |                       |                    |
| Q19-20                                            |               | 2SC1740S                                        | TRANSISTOR                                |                       |                    |
| Q21                                               |               | 2SC2235Y                                        | TRANSISTOR                                |                       |                    |
| Q23                                               |               | 2SC1845F                                        | TRANSISTOR                                |                       |                    |
| Q24                                               |               | 2SA992F                                         | TRANSISTOR                                |                       |                    |
| Q25                                               |               | 2SB1274                                         | TRANSISTOR                                |                       |                    |
| Q201-204                                          |               | 2SA992F                                         | TRANSISTOR                                |                       |                    |
| Q205-208                                          |               | 2SC1845F                                        | TRANSISTOR                                |                       |                    |
| Q209-210                                          |               | 2SA992F                                         | TRANSISTOR                                |                       |                    |
| Q501-502                                          |               | 2SC2316(Y)                                      | TRANSISTOR                                |                       |                    |
| Q503                                              |               | 2SD0882                                         | TRANSISTOR                                |                       |                    |
| Q801                                              |               | 2SC31940                                        | TRANSISTOR                                |                       |                    |
| Q803                                              |               | 2SC1740S                                        | TRANSISTOR                                |                       |                    |
| Q804                                              |               | 2SC1845F                                        | TRANSISTOR                                |                       |                    |
| Q808-809                                          |               | 2SA933S                                         | TRANSISTOR                                |                       |                    |

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KR-A5060

# PARTS LIST

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PARTS LIST

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7

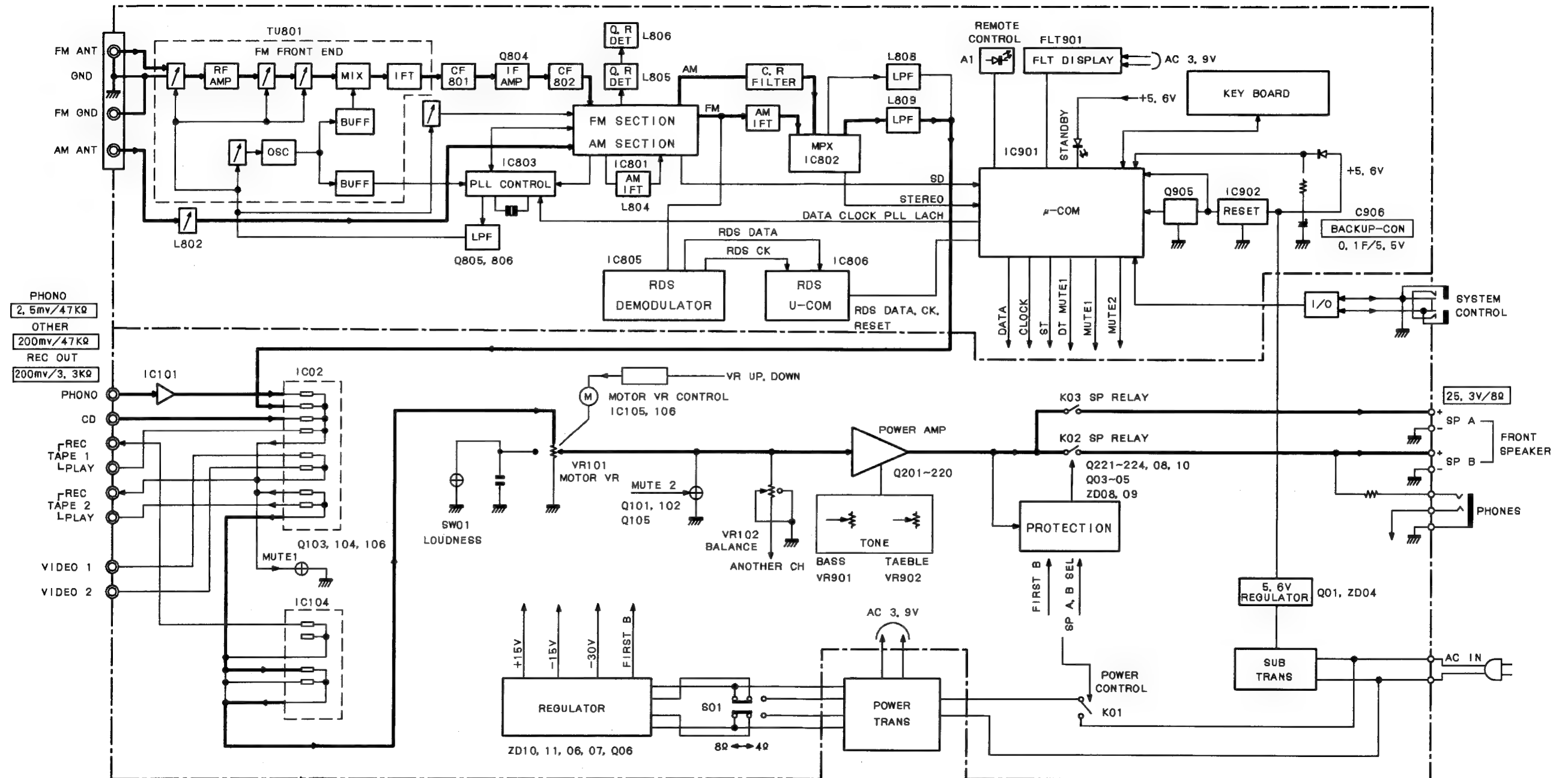
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|----------------------------------|---------------|---------------------------------------------|--------------------------------------------------------------|-----------------------|--------------------|
| Q811,812<br>Q901<br>Q902<br>Q903 |               | 2SC1740S<br>2SA933S<br>2SC1740S<br>DTA143TS | TRANSISTOR<br>TRANSISTOR<br>TRANSISTOR<br>DIGITAL TRANSISTOR | M                     |                    |
| A901<br>T0801                    |               | W02-1111-08<br>W02-1042-05                  | ELECTRIC CIRCUIT MODULE<br>FM FRONT END UNIT                 | M<br>KPMXR            |                    |

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# KR-A4060/A5060    KR-A4060/A5060

## BLOCK DIAGRAM





KR-A4060/A5060  
ADJUSTMENT

AM section : If alignment point is "-", confirm the value. If not, replace the front end pack.

| No.           | ITEM                   | INPUT<br>SETTINGS                                                                                      | OUTPUT<br>SETTINGS                                                    | TUNER<br>SETTINGS             | ALIGNMENT<br>POINTS                    | ALIGN FOR                                                              | FIG. |
|---------------|------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------|----------------------------------------|------------------------------------------------------------------------|------|
| FM SECTION    |                        | SELECTOR : FM                                                                                          |                                                                       |                               |                                        |                                                                        |      |
| 1             | DISCRIMINATOR          | (A)<br>98.0MHz<br>1kHz, ±40kHz dev.<br>60dBμ (ANT. input)                                              | Connect a DC voltmeter<br>between<br>TP801 and TP802.<br>(TUNER UNIT) | AUTO<br>or<br>MONO<br>98.0MHz | L805<br>(TUNER UNIT)                   | 0V.                                                                    | (a)  |
| 2             | DISCRIMINATOR          | (C)<br>98.0MHz<br>1kHz, ±40kHz dev.<br>60dBμ (ANT. input)                                              | Connect a<br>Distortion meter<br>(1kHz)                               | AUTO<br>or<br>MONO<br>98.0MHz | L806<br>(TUNER UNIT)                   | Minimum distortion.<br>(L or R)                                        |      |
| 3             | DISCRIMINATOR          | (C)<br>98.0MHz<br>1kHz, ±40kHz dev.<br>60dBμ (ANT. input)                                              | Connect a DC voltmeter<br>between<br>TP801 and TP802.<br>(TUNER UNIT) | AUTO<br>or<br>MONO<br>98.0MHz | L806<br>(TUNER UNIT)                   | 0V.                                                                    | (a)  |
| 4             | DISTORTION<br>(STEREO) | (C)<br>98.0MHz<br>1kHz, ±40kHz dev.<br>Selector : L or R<br>Pilot : ±6.0kHz dev.<br>60dBμ (ANT. input) | (B)                                                                   | 98.0MHz                       | IFT<br>(Front end pack)                | Minimum distortion.<br>(L or R)                                        |      |
| 5             | SEPARATION             | (C)<br>98.0MHz<br>1kHz, ±40kHz dev.<br>Selector : L or R<br>Pilot : ±6.0kHz dev.<br>60dBμ (ANT. input) | (B)                                                                   | AUTO<br>98.0MHz               | VR803<br>(TUNER UNIT)                  | Minimum cross talk.                                                    |      |
| 6             | TUNING LEVEL           | (A)<br>98.0MHz<br>0 dev.<br>17dBμ (ANT. input)                                                         | (B)                                                                   | AUTO<br>or<br>MONO<br>98.0MHz | VR802<br>(TUNER UNIT)                  | Adjust VR802 and stop<br>at the point where<br>FLT901 (TUNED) goes on. |      |
| AM SECTION    |                        | SELECTOR : AM                                                                                          |                                                                       |                               |                                        |                                                                        |      |
| (1)           | TUNING LEVEL           | (D)<br>999MHz<br>26dBμ (ANT. input)                                                                    | (B)                                                                   | —                             | VR801<br>(TUNER UNIT)                  | Adjust VR801 and stop<br>at the point where<br>FLT901 (TUNED) goes on. |      |
| AUDIO SECTION |                        |                                                                                                        |                                                                       |                               |                                        |                                                                        |      |
| <1>           | IDLE CURRENT           | —                                                                                                      | Connect a DC voltmeter<br>across CP1 (L), CP2 (R)<br>(MAIN UNIT)      | Volume : 0                    | VR201 (L)<br>VR202 (R)<br>(AUDIO UNIT) | 10mV                                                                   |      |

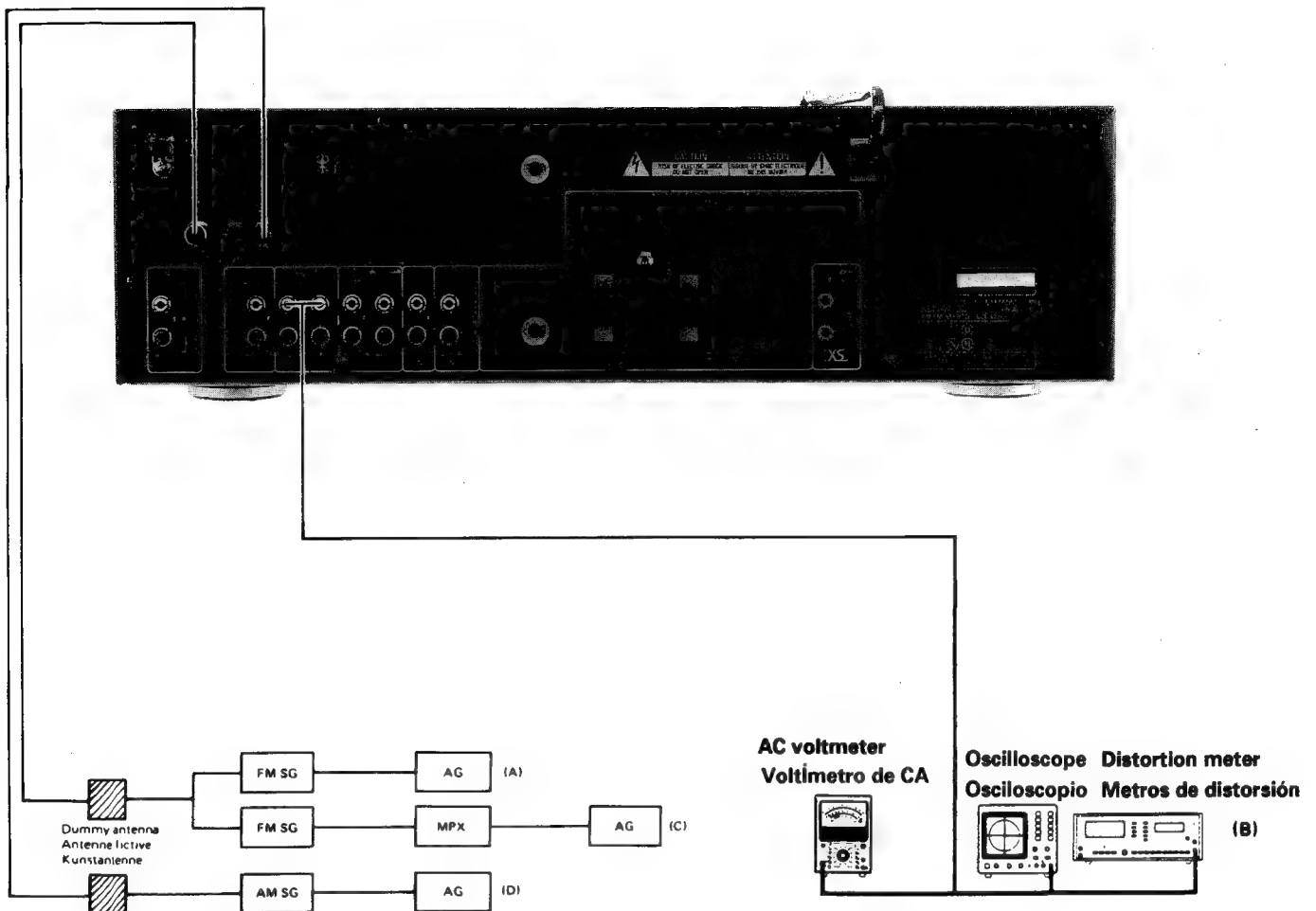
KR-A4060/A5060  
AJUSTES

Sección de AM : Si el punto de alineación es "-", confirme el valor. Si no, reemplace el paquete de entrada.

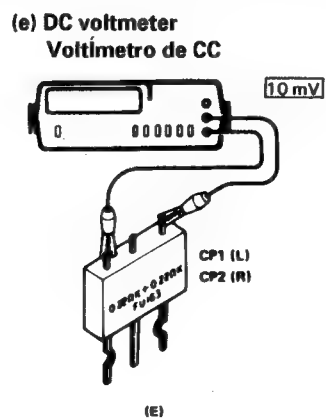
| Núm.             | ÍTEM                    | AJUSTES<br>DE ENTRADA                                                                                         | AJUSTES<br>DE SALIDA                                                                | AJUSTES DEL<br>SINTONIZADOR  | PUNTOS DE<br>ALINEACIÓN                  | ALINEACIÓN PARA                                                                    | FIG. |
|------------------|-------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------|------------------------------------------|------------------------------------------------------------------------------------|------|
| SECCIÓN DE FM    |                         | SELECTOR : FM                                                                                                 |                                                                                     |                              |                                          |                                                                                    |      |
| 1                | DISCRIMINATOR           | (A)<br>98.0MHz<br>1kHz, ±40kHz dev.<br>60dBμ (Entrada de antena)                                              | Conecte un voltímetro<br>de CC entre<br>TP801 y TP802.<br>(UNIDAD DEL SINTONIZADOR) | AUTO<br>o<br>MONO<br>98.0MHz | L805<br>(UNIDAD DEL<br>SINTONIZADOR)     | 0V.                                                                                | (a)  |
| 2                | DISCRIMINATOR           | (C)<br>98.0MHz<br>1kHz, ±40kHz dev.<br>60dBμ (Entrada de antena)                                              | Conecte un medidor<br>de Distorsión.<br>(1kHz)                                      | AUTO<br>o<br>MONO<br>98.0MHz | L806<br>(UNIDAD DEL<br>SINTONIZADOR)     | Distorsión mínima.<br>(L o R)                                                      |      |
| 3                | DISCRIMINATOR           | (C)<br>98.0MHz<br>1kHz, ±40kHz dev.<br>60dBμ (Entrada de antena)                                              | Conecte un voltímetro<br>de CC entre<br>TP801 y TP802.<br>(UNIDAD DEL SINTONIZADOR) | AUTO<br>o<br>MONO<br>98.0MHz | L806<br>(UNIDAD DEL<br>SINTONIZADOR)     | 0V.                                                                                | (a)  |
| 4                | DISTORSIÓN<br>(ESTÉREO) | (C)<br>98.0MHz<br>1kHz, ±40kHz dev.<br>Selector : L o R<br>Piloto : ±6.0kHz dev.<br>60dBμ (Entrada de antena) | (B)                                                                                 | 98.0MHz                      | IFT<br>(Paquete<br>de entrada)           | Distorsión mínima.<br>(L o R)                                                      |      |
| 5                | SEPARACIÓN              | (C)<br>98.0MHz<br>1kHz, ±40kHz dev.<br>Selector : L o R<br>Piloto : ±6.0kHz dev.<br>60dBμ (Entrada de antena) | (B)                                                                                 | AUTO<br>98.0MHz              | VR803<br>(UNIDAD DEL<br>SINTONIZADOR)    | Diafonía mínima.                                                                   | (b)  |
| 6                | NIVEL DE SINTONÍA       | (A)<br>98.0MHz<br>0 dev.<br>17dBμ (Entrada de antena)                                                         | (B)                                                                                 | AUTO<br>o<br>MONO<br>98.0MHz | VR802<br>(UNIDAD DEL<br>SINTONIZADOR)    | Ajuste VR802 y pare en el<br>punto en el que se encienda<br>FLT 901 (SINTONIZADO). |      |
| SECCIÓN DE AM    |                         | SELECTOR : AM                                                                                                 |                                                                                     |                              |                                          |                                                                                    |      |
| (1)              | NIVEL DE SINTONÍA       | (D)<br>999MHz<br>26dBμ (Entrada de antena)                                                                    | (B)                                                                                 | —                            | VR801<br>(UNIDAD DEL<br>SINTONIZADOR)    | Ajuste VR801 y pare en el<br>punto en el que se encienda<br>FLT 901 (SINTONIZADO). |      |
| SECCIÓN DE AUDIO |                         |                                                                                                               |                                                                                     |                              |                                          |                                                                                    |      |
| <1>              | CORRIENTE EN REPOSO     | —                                                                                                             | Conecte un voltímetro de CC<br>entre CP1 (L) y CP2 (R)<br>(UNIDAD PRINCIPAL)        | Volumen : 0                  | VR201 (L)<br>VR202 (R)<br>(UNIDAD AUDIO) | 10mV                                                                               |      |

## ADJUSTMENT/AJUSTES

### SYSTEM CONNECTIONS/CONEXIONES DEL SISTEMA

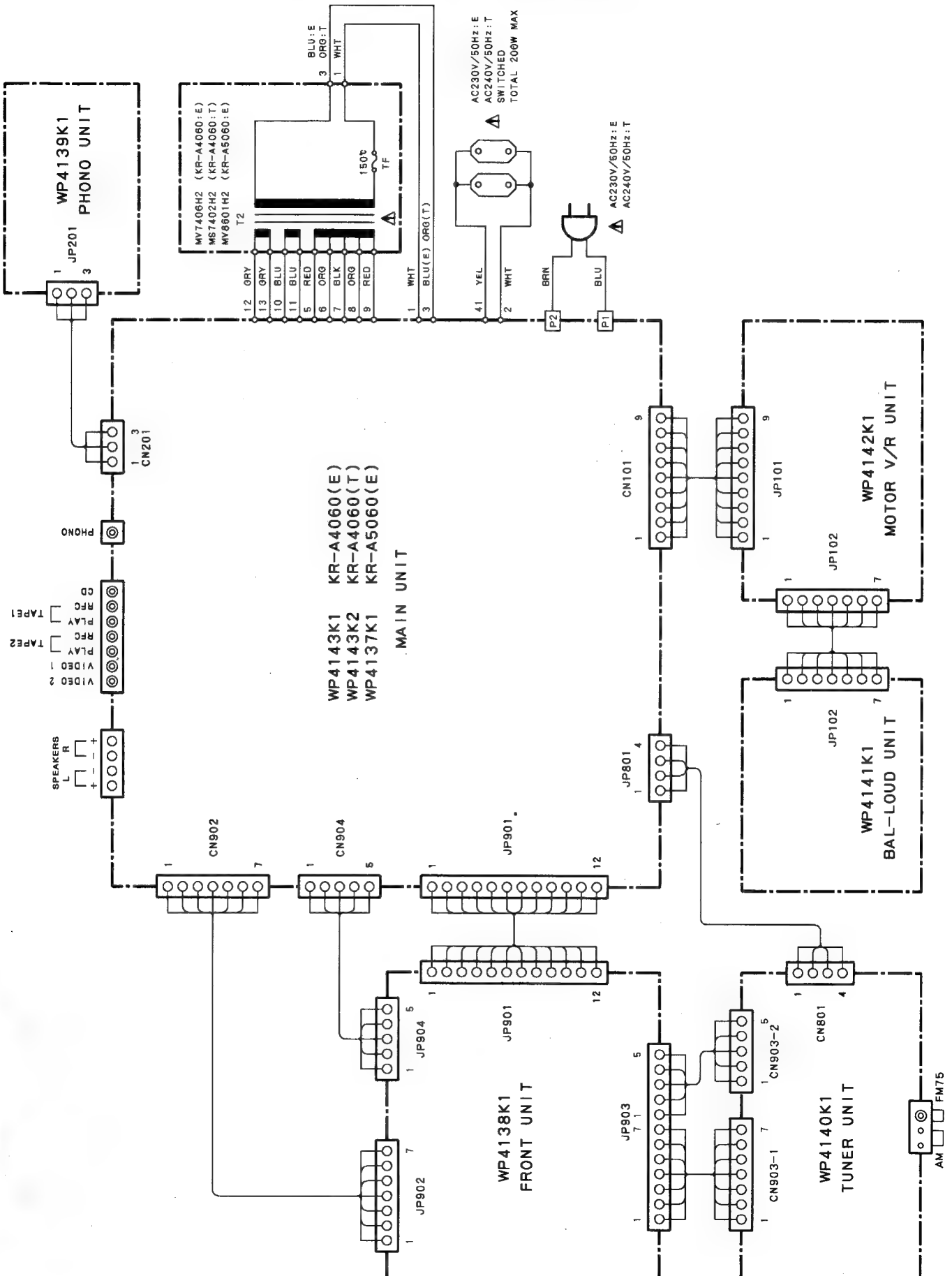


### System connections/Raccordements du système/System-Anschlüsse

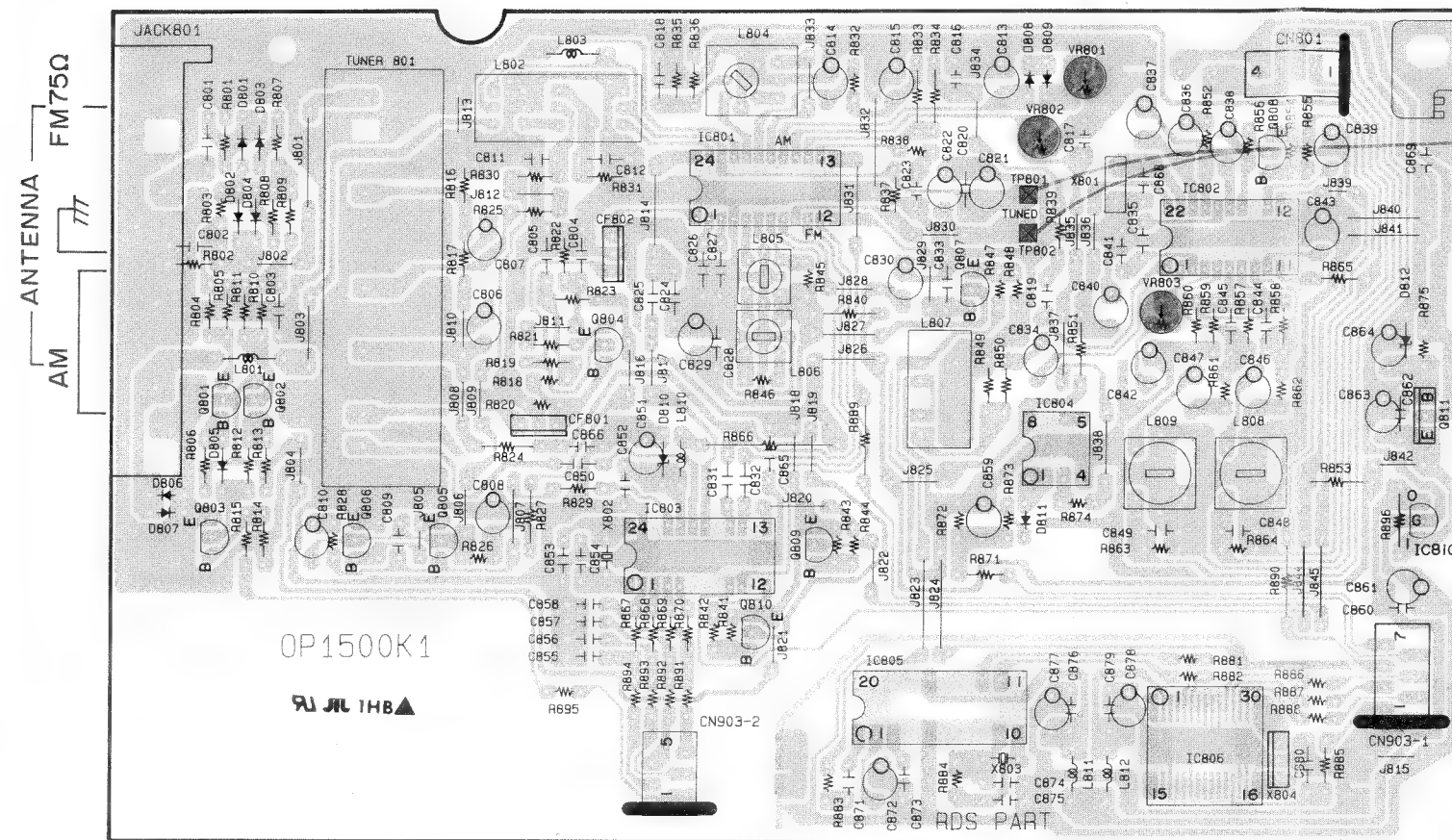


# KR-A4060/A5060

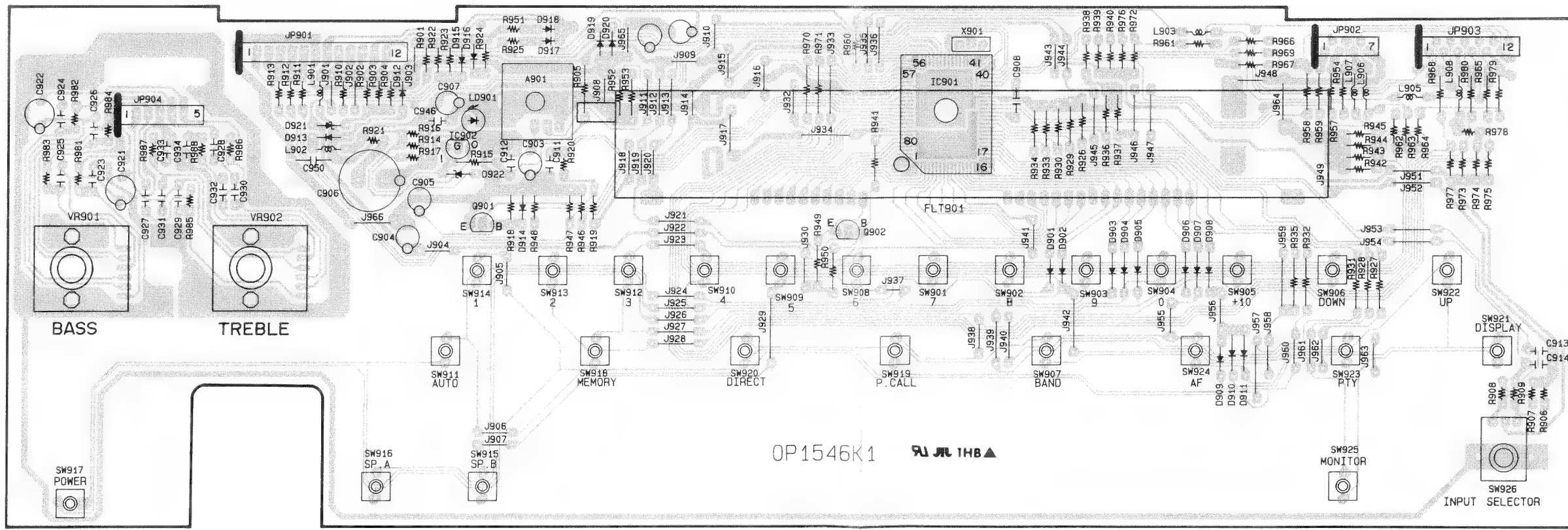
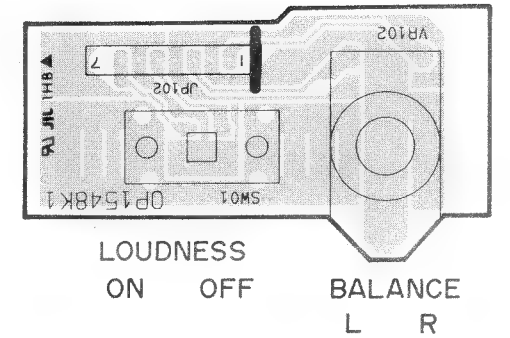
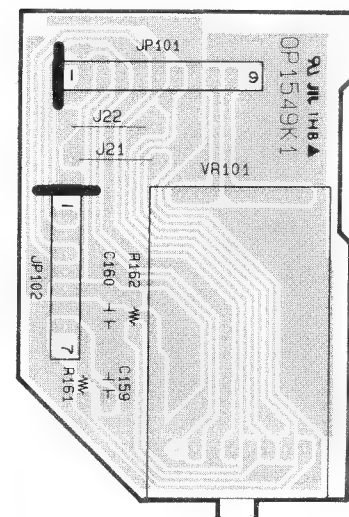
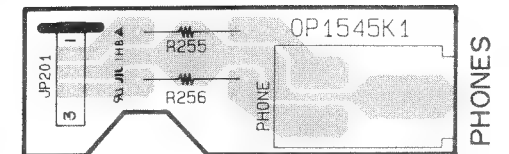
## WIRING DIAGRAM



# PC BOARD (COMPONENT SIDE VIEW) : KR-A4060/A5060



(a) Discriminator:  
0V  
DC voltmeter



FRONT

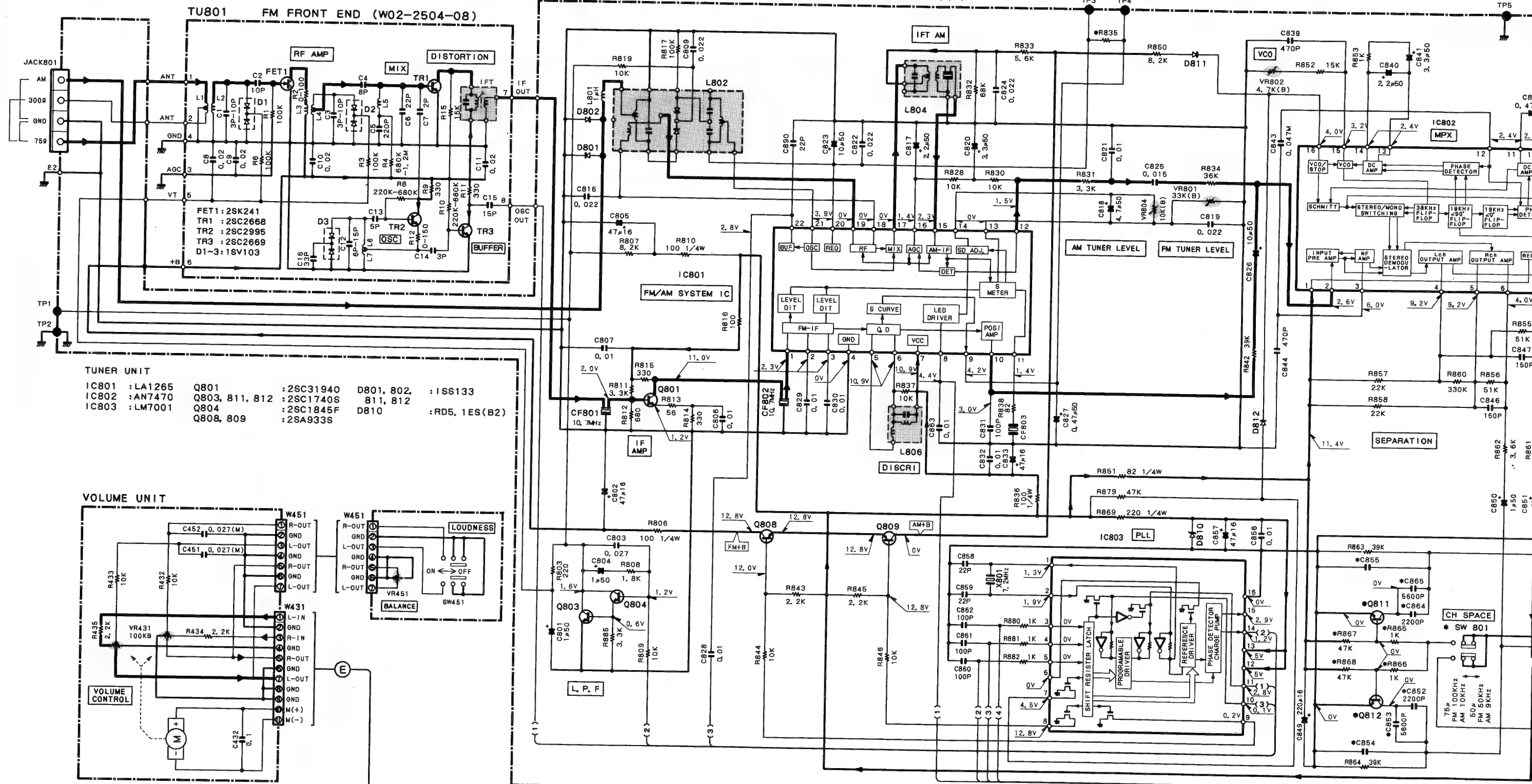
Refer to the schematic diagram for the values of resistors and capacitors.



11



TUNER PCB ASS Y (WP4125K1)(K.P.R) (WP4125K2)(M) (WP4125K3)(X)



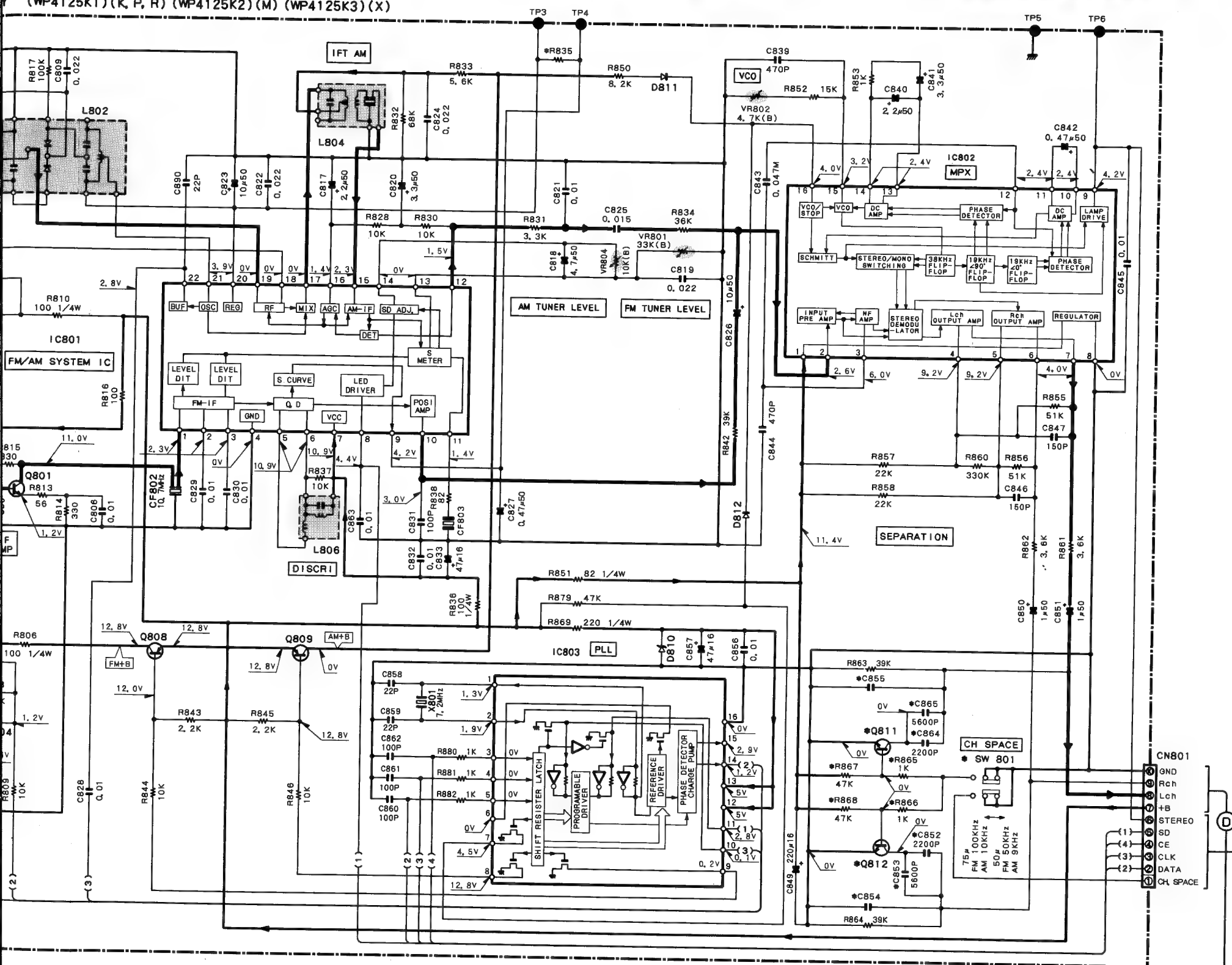
TUNER UNIT  
IC801 : LA1265 Q801 : 2SC31940 D801, 802 : 1SS133  
IC802 : AN7470 Q803, 811, 812 : 2SC1740S 811, 812  
IC803 : LM7001 Q804 : 2SC1845F D810 : RD5.1ES(B2)  
Q808, 809 : 2SA933S

| DESTINATION    |      | Q811 | Q812 | R835 | R865 | R866 | R867 | R868 | SW801 | C852 | C853 | C864 | C865 | C854    | C855    |
|----------------|------|------|------|------|------|------|------|------|-------|------|------|------|------|---------|---------|
| COUNTRY        | ABB. |      |      |      |      |      |      |      |       |      |      |      |      |         |         |
| U. S. A.       | K    | NO   | NO   | 15K  | NO   | NO   | NO   | NO   | NO    | NO   | NO   | NO   | NO   | 0.022µF | 0.022µF |
| CANADA         | P    | NO   | NO   | 15K  | NO   | NO   | NO   | NO   | NO    | NO   | NO   | NO   | NO   | 0.022µF | 0.022µF |
| GENERAL MARKET | M    | YES  | YES  | 39K  | YES  | YES  | YES  | YES  | YES   | YES  | YES  | YES  | YES  | 0.015µF | 0.015µF |
| AUSTRALIA      | X    | NO   | NO   | 39K  | NO   | NO   | NO   | NO   | NO    | NO   | NO   | NO   | NO   | 0.015µF | 0.015µF |

| FRONT/TONE PCB ASS Y |      | Q903 | D908 | D924 | R |
|----------------------|------|------|------|------|---|
| COUNTRY              | ABB. |      |      |      |   |
| U. S. A.             | K    | NO   | NO   | YES  |   |
| CANADA               | P    | NO   | NO   | YES  |   |
| GENERAL MARKET       | M    | YES  | NO   | NO   | Y |
| AUSTRALIA            | X    | NO   | YES  | NO   |   |



(WP4125K1)(K, P, R) (WP4125K2)(M) (WP4125K3)(X)

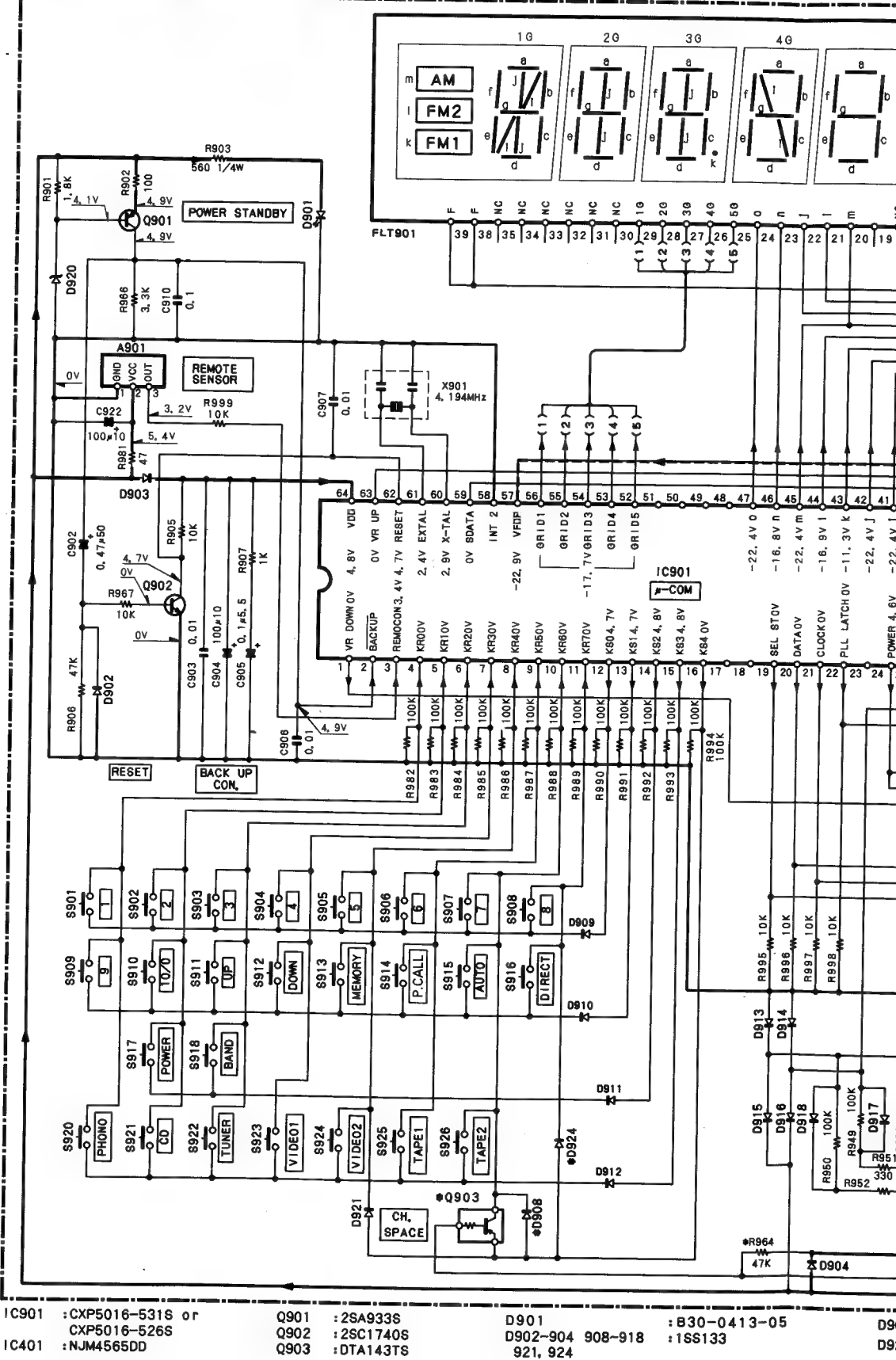


| Q812 | R835 | R865 | R866 | R867 | R868 | SW801 | C852 | C853 | C864 | C865 | C854    | C855    |
|------|------|------|------|------|------|-------|------|------|------|------|---------|---------|
| NO   | 15K  | NO   | NO   | NO   | NO   | NO    | NO   | NO   | NO   | NO   | 0.022µF | 0.022µF |
| YES  | 39K  | YES  | YES  | YES  | YES  | YES   | YES  | YES  | YES  | YES  | 0.015µF | 0.015µF |
| NO   | 39K  | NO   | NO   | NO   | NO   | NO    | NO   | NO   | NO   | NO   | 0.015µF | 0.015µF |

FRONT/TONE PCB ASS Y

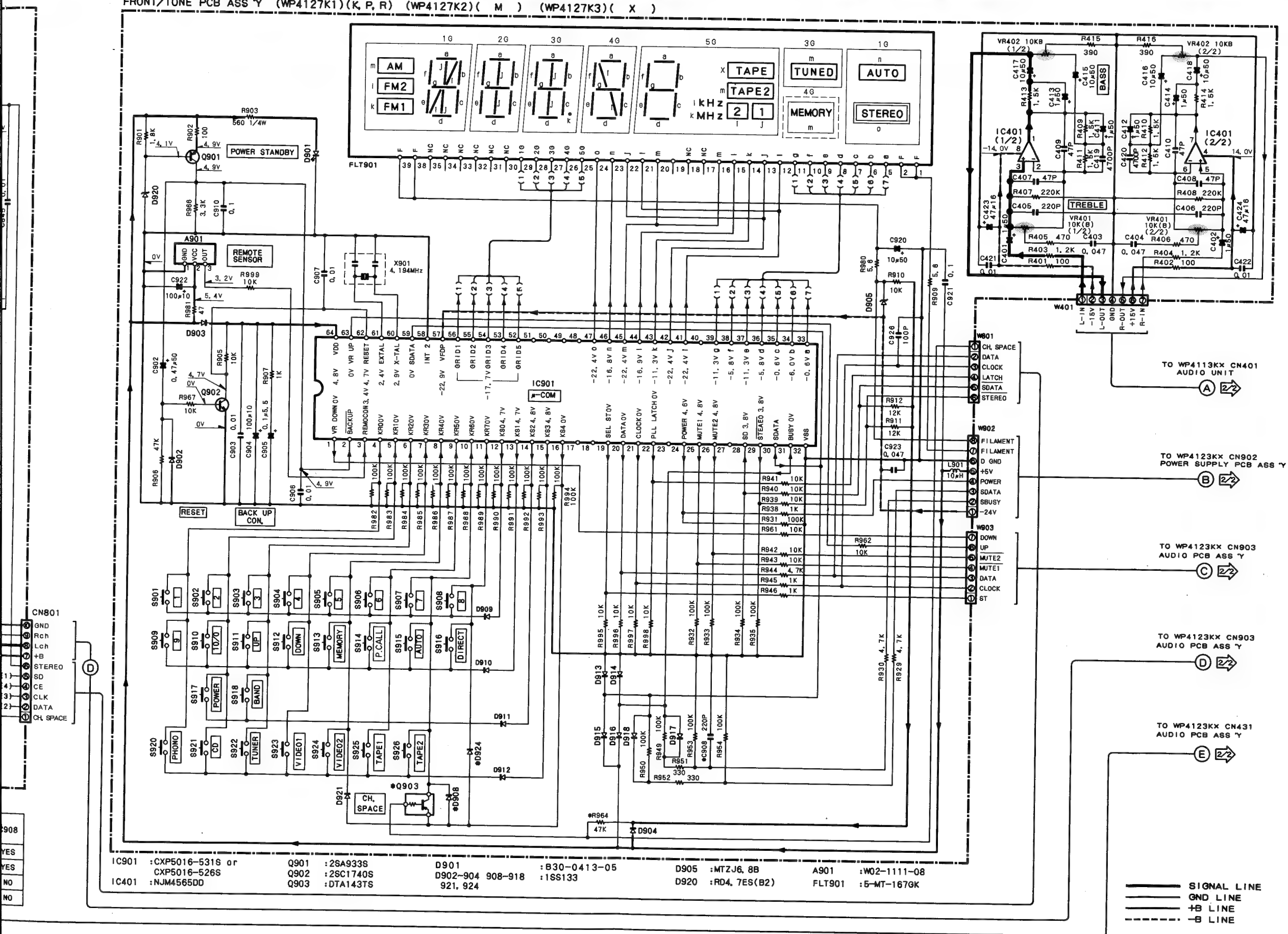
| DESTINATION    | COUNTRY | ABB. | Q903 | D908 | D924 | R964 | C908 |
|----------------|---------|------|------|------|------|------|------|
| U. S. A.       | K       | NO   | NO   | YES  | NO   | YES  |      |
| CANADA         | P       | NO   | NO   | YES  | NO   | YES  |      |
| GENERAL MARKET | M       | YES  | NO   | NO   | YES  | NO   |      |
| AUSTRALIA      | X       | NO   | YES  | NO   | NO   | NO   |      |

FRONT/TONE PCB ASS Y (WP4127K1)(K, P, R) (WP4127K2)(M) (WP4127K3)(X)



IC901 : CXP5016-531S or  
CXP5016-526S  
IC401 : NJM4565DD  
Q901 : 2SA933S  
Q902 : 2SC1740S  
Q903 : DTA143TS  
D901 : 830-0413-05  
D902-904 908-918 : 1SS133  
D909 : 1SS133

FRONT/TONE PCB ASS Y (WP4127K1)(K, P, R) (WP4127K2)( M ) (WP4127K3)( X )



- |                                         |                                                      |                                                             |                                         |                                           |
|-----------------------------------------|------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------|-------------------------------------------|
| IC901 : CXPS016-5316 or<br>CXPS016-526S | Q901 : 2SA933S<br>Q902 : 2SC1740S<br>Q903 : DTA143TS | D901 : 830-0413-05<br>D902-904 908-918 : 1SS133<br>921, 924 | D905 : MTZJ6, 8B<br>D920 : R04, 7ES(B2) | A901 : W02-1111-08<br>FLT901 : 5-MT-167GK |
|-----------------------------------------|------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------|-------------------------------------------|

— SIGNAL LINE  
— GND LINE  
— +B LINE  
- - - -B LINE

2SC2235Y  
2SC2878B

2SD882

DTA143TS  
2SA933S  
2SC1740S

2SC4137

2SB1470  
2SD2222

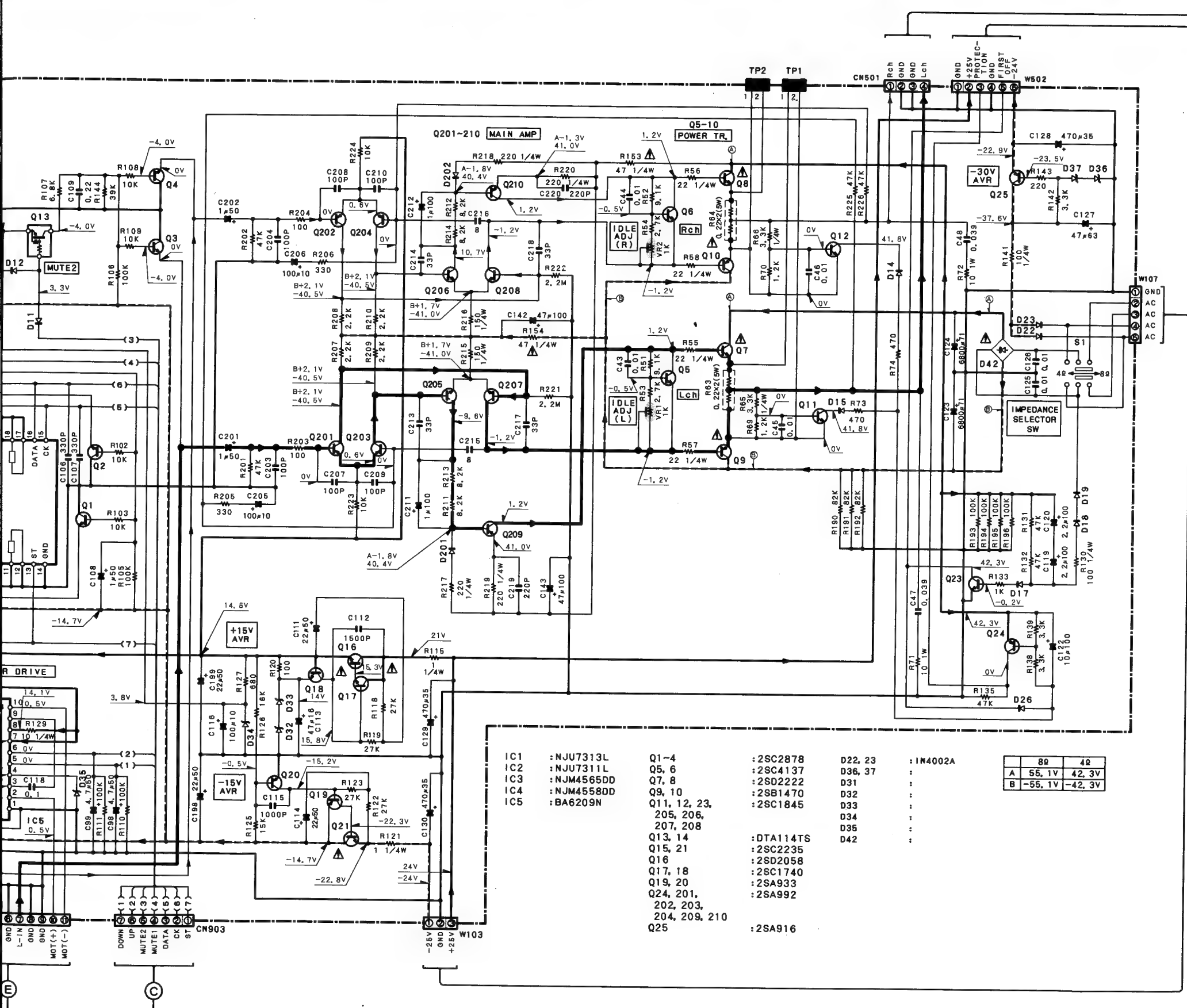
• DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to part list). Δ Indicates safety critical components. To reduce the risk of electric shock, leakage current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

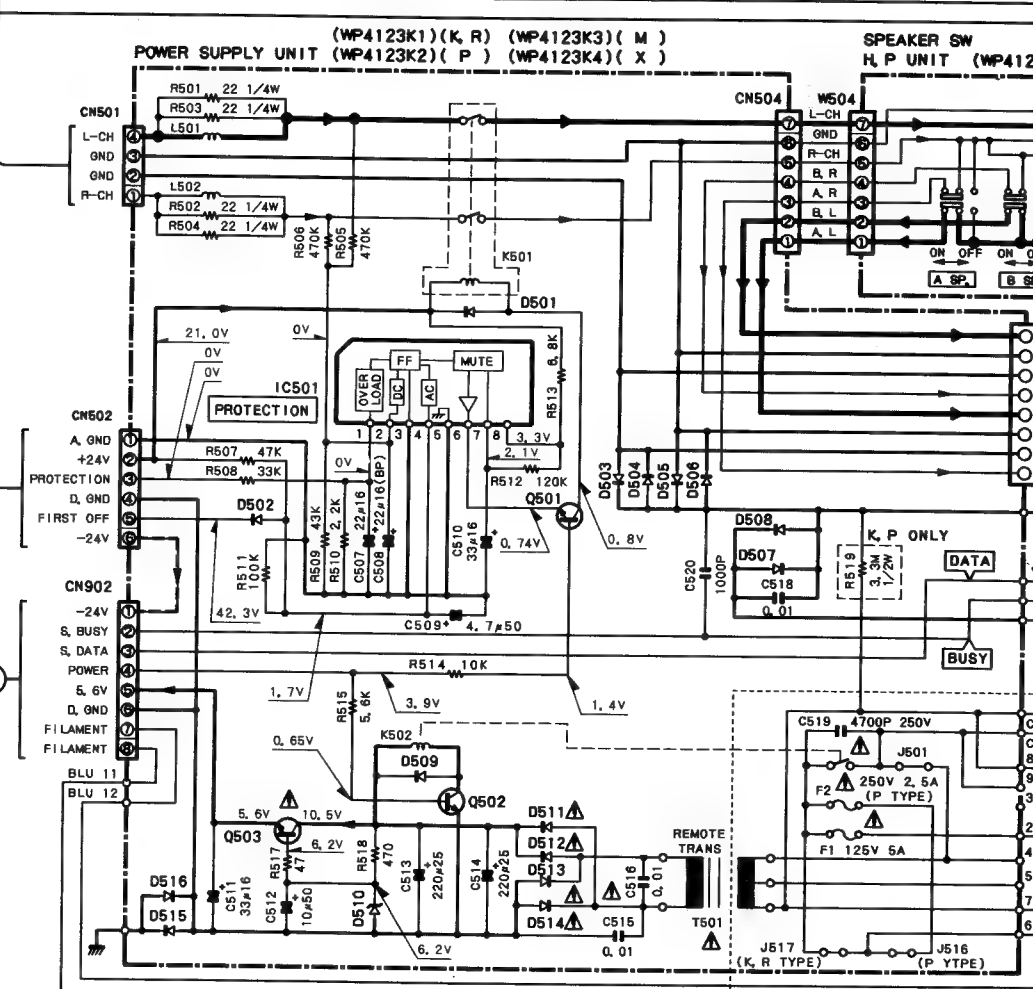
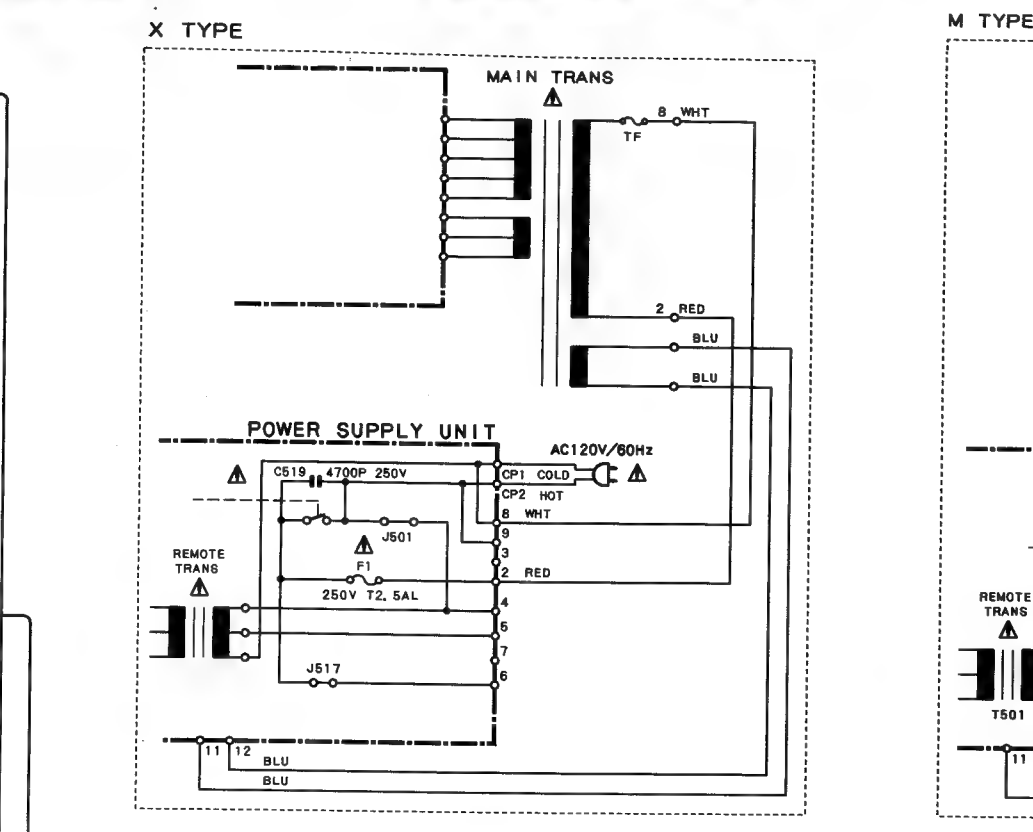


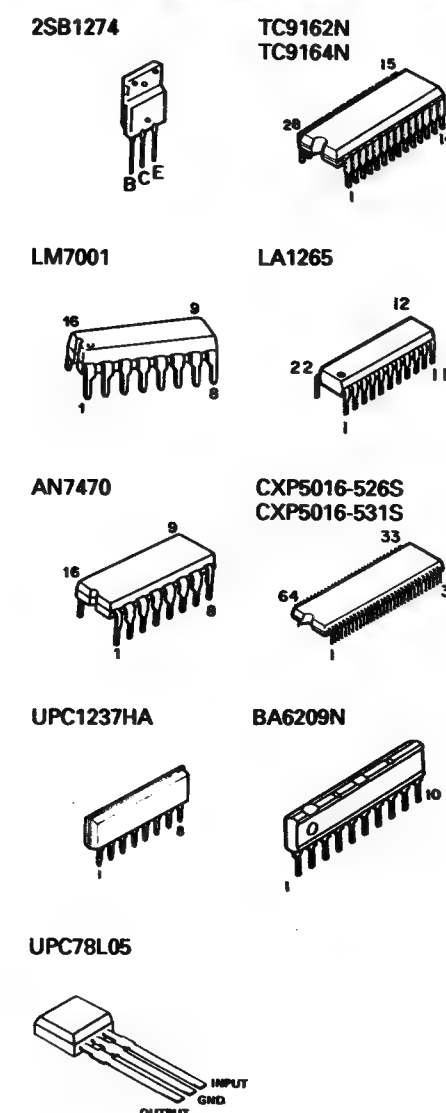


|     |            |                                       |           |                   |
|-----|------------|---------------------------------------|-----------|-------------------|
| IC1 | :NJU7313L  | Q1-4                                  | :2SC2878  | D22, 23           |
| IC2 | :NJU7311L  | Q5, 6                                 | :2SC4137  | D36, 37           |
| IC3 | :NJM4565DD | Q7, 8                                 | :2SD2222  | D31               |
| IC4 | :NJM4558DD | Q9, 10                                | :2SB1470  | D32               |
| IC5 | :BA6209N   | Q11, 12, 23,<br>205, 206,<br>207, 208 | :2SC1845  | D33<br>D34<br>D35 |
|     |            | Q13, 14                               | :DTA114TS | D42               |
|     |            | Q15, 21                               | :2SC2235  |                   |
|     |            | Q16                                   | :2SD2058  |                   |
|     |            | Q17, 18                               | :2SC1740  |                   |
|     |            | Q19, 20                               | :2SA933   |                   |
|     |            | Q24, 201,                             | :2SA992   |                   |
|     |            | 202, 203,<br>204, 209, 210            |           |                   |
|     |            | Q25                                   | :2SA916   |                   |



|     |             |                                   |            |         |           |
|-----|-------------|-----------------------------------|------------|---------|-----------|
| IC1 | : NJU7313L  | Q1-4                              | : 2SC2878  | D22, 23 | : 1N4002A |
| IC2 | : NJU7311L  | Q5, 6                             | : 2SC4137  | D36, 37 | :         |
| IC3 | : NJM4565DD | Q7, 8                             | : 2SD2222  | D31     | :         |
| IC4 | : NJM4558DD | Q9, 10                            | : 2SB1470  | D32     | :         |
| IC5 | : BA6209N   | Q11, 12, 23, 205, 206, 207, 208   | : 2SC1845  | D33     | :         |
|     |             | Q13, 14                           | : DTA114TS | D34     | :         |
|     |             | Q15, 21                           | : 2SC2235  | D35     | :         |
|     |             | Q16                               | : 2SD2058  | D42     | :         |
|     |             | Q17, 18                           | : 2SC1740  |         |           |
|     |             | Q19, 20                           | : 2SA933   |         |           |
|     |             | Q24, 201, 202, 203, 204, 209, 210 | : 2SA916   |         |           |
|     |             | Q25                               | : 2SA916   |         |           |

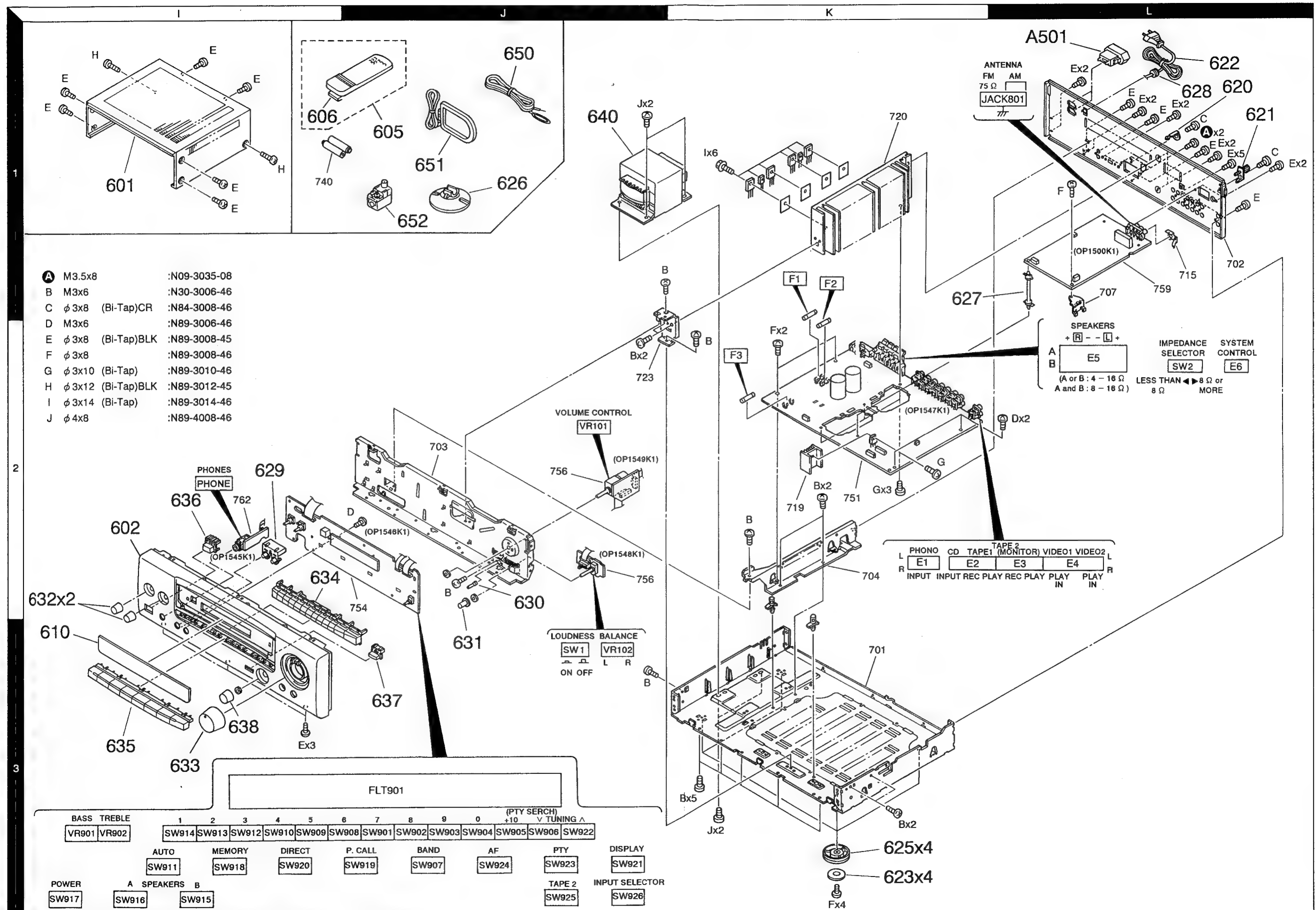




**CAUTION :** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

 SIGNAL LINE  
 GND LINE  
 +B LINE  
 -B LINE

# KR-A4060/A5060      KR-A4060/A5060 EXPLODED VIEW (UNIT)



Parts with the exploded numbers larger than 700 are not supplied.



× New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

| Ref. No.<br>参照番号                                         | Address<br>位置 | New Parts<br>新部品 | Parts No.<br>部品番号 | Description<br>部品名 / 規格    | Desti-<br>nation<br>仕向備考   |
|----------------------------------------------------------|---------------|------------------|-------------------|----------------------------|----------------------------|
| KR-A4060                                                 |               |                  |                   |                            |                            |
| 601                                                      | 1I            | *                | A01-3167-08       | METALIC CABINET            | E<br>E<br>T                |
| 602                                                      | 2I            | *                | A60-0633-08       | FRONT PANEL                |                            |
| 605                                                      | 1J            | *                | A70-0985-08       | REMOTE CONTROL ASSY        |                            |
| 606                                                      | 1I            | *                | A09-0170-08       | BATTERY COVER              |                            |
| 610                                                      | 3I            | *                | B10-2040-08       | FRONT GLASS                | E<br>E<br>E                |
| 620                                                      | 1L            | *                | E21-0031-08       | GND TERMINAL               |                            |
| -                                                        | -             | *                | B46-0122-23       | WARRANTY CARD              |                            |
| -                                                        | -             | *                | B46-0143-13       | INSTRUCTION MANUAL (EN)    |                            |
| -                                                        | -             | *                | B60-0580-08       | INSTRUCTION MANUAL (EN)    | E<br>T<br>E<br>T           |
| -                                                        | -             | *                | B60-0581-08       | INSTRUCTION MANUAL (F/G/D) |                            |
| -                                                        | -             | *                | B60-0582-08       | INSTRUCTION MANUAL (SP/IT) |                            |
| 621                                                      | 1L            | *                | E21-0023-08       | GND TERMINAL ASSY          |                            |
| 622                                                      | 1L            | *                | E30-0459-05       | AC POWER CORD              | E<br>T<br>E<br>T           |
| 622                                                      | 1L            | *                | E30-2718-05       | AC POWER CORD              |                            |
| AS01                                                     | 1L            | *                | E03-0055-05       | AC OUTLET                  |                            |
| AS01                                                     | 1L            | *                | E03-0133-08       | AC OUTLET                  |                            |
| 623                                                      | 3K            | *                | G13-0267-08       | CUSHION                    | FOOT                       |
| -                                                        | -             | *                | H10-5855-08       | POLYSTYRENE FOAMED FIXTURE |                            |
| -                                                        | -             | *                | H50-1074-08       | ITEM CARTON CASE           |                            |
| -                                                        | -             | *                | H25-0232-04       | PROTECTION BAG (ACCESSORY) |                            |
| -                                                        | -             | *                | H25-0232-04       | PROTECTION BAG (MANUAL)    | FOOT                       |
| -                                                        | -             | *                | H25-1532-08       | PROTECTION BAG (UNIT)      |                            |
| 625                                                      | 3K            | *                | J02-1099-08       | FOOT                       |                            |
| 626                                                      | 1J            | *                | J19-2815-04       | LOOP ANTENNA HOLDER        |                            |
| 627                                                      | 1K            | *                | J19-3631-08       | PCB HOLDER                 | AC CORD BUSHING            |
| 628                                                      | 1L            | *                | J42-0198-08       | AC CORD BUSHING            |                            |
| 629                                                      | 2I            | *                | K29-5998-08       | KNOB SPEAKERS              |                            |
| 630                                                      | 2J            | *                | K27-2166-08       | KNOB LOUDNESS              |                            |
| 631                                                      | 3J            | *                | K29-4444-08       | KNOB BALANCE               | KNOB BASS, TREBLE          |
| 632                                                      | 3I            | *                | K29-5952-08       | KNOB BASS, TREBLE          |                            |
| 633                                                      | 3I            | *                | K29-5953-08       | KNOB VOLUME ASSY           |                            |
| 634                                                      | 2I            | *                | K29-5954-08       | KNOB PRESET                |                            |
| 635                                                      | 3I            | *                | K29-5955-08       | KNOB FUNCTION              | KNOB POWER                 |
| 636                                                      | 2I            | *                | K29-5956-08       | KNOB POWER                 |                            |
| 637                                                      | 3J            | *                | K29-5996-08       | KNOB TAPE2                 |                            |
| 638                                                      | 3I            | *                | K27-2111-08       | KNOB INPUT SELECTOR        |                            |
| 640                                                      | 1J            | *                | L07-1801-08       | POWER TRANSFORMER          | POWER TRANSFORMER          |
| 640                                                      | 1J            | *                | L07-1802-08       | POWER TRANSFORMER          |                            |
| A                                                        | 1L            | *                | N09-3035-08       | TAPTITE SCREW              |                            |
| B                                                        | 2J            | *                | N30-3006-46       | PAN HEAD MACHIN SCREW      |                            |
| C                                                        | 1L            | *                | N84-3008-46       | BINDING HEAD TAPTITE SCREW | BINDING HEAD TAPTITE SCREW |
| D                                                        | 2J            | *                | N89-3006-46       | BINDING HEAD TAPTITE SCREW |                            |
| E                                                        | 1L, 3I        | *                | N89-3008-45       | BINDING HEAD TAPTITE SCREW |                            |
| F                                                        | 2K            | *                | N89-3008-46       | BINDING HEAD TAPTITE SCREW |                            |
| G                                                        | 2K            | *                | N89-3010-46       | BINDING HEAD TAPTITE SCREW | BINDING HEAD TAPTITE SCREW |
| H                                                        | 1K            | *                | N89-3012-45       | BINDING HEAD TAPTITE SCREW |                            |
| I                                                        | 1K            | *                | N89-3014-46       | BINDING HEAD TAPTITE SCREW |                            |
| -                                                        | -             | *                | N89-3014-46       | BINDING HEAD TAPTITE SCREW |                            |
| R:::Scandinavia K:USA P::Canada R::Mexico 4:KR-A4060     |               |                  |                   |                            |                            |
| T::UK (Far East, Hawaii) T::England E::Europe 5:KR-A5060 |               |                  |                   |                            |                            |
| X::Australia X::Other Areas W::Other Areas 5:KR-A5060    |               |                  |                   |                            |                            |
| 5:KR-A5060 indicates safety critical components.         |               |                  |                   |                            |                            |

× New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

| Ref. No.<br>参照番号 | Address<br>位置 | New Parts<br>新部品 | Parts No.<br>部品番号 | Description<br>部品名 / 規格 | Desti-<br>nation<br>仕向備考 |
|------------------|---------------|------------------|-------------------|-------------------------|--------------------------|
| 651              | 1J            |                  | T90-0184-08       | LOOP ANTENNA            |                          |
| 652              | 1J            |                  | T90-0185-05       | ANTENNA ADAPTER         |                          |
| ELECTRIC PARTS   |               |                  |                   |                         |                          |
| LD901            |               |                  | B30-0413-05       | LED(LTL4213(RED))       |                          |
| C1               |               |                  | C91-0647-05       | CERAMIC                 | 5                        |
| C2               | -4            |                  | CK45FF1H103Z      | 0.01UF                  |                          |
| C5               |               |                  | CE04KW1E471M      | 0.010UF                 |                          |
| C6               |               |                  | CE04KW1H100M      | 470UF                   |                          |
| C7               |               |                  | CE04KW1H101M      | 100UF                   | 4                        |
| C8               |               |                  | CE04KW1H101M      | 100UF                   |                          |
| C9               |               |                  | CE04KW1H101M      | 100UF                   |                          |
| C10              |               |                  | CE04KW1H101M      | 100UF                   |                          |
| C11              |               |                  | CE04KW1H102M      | 2.2UF                   | 5                        |
| C12              |               |                  | CE04KW1H102M      | 22UF                    |                          |
| C13              | 14            |                  | CK45F1H473Z       | 0.047UF                 |                          |
| C15              | 16            |                  | C90-0369-05       | 6800PF                  |                          |
| C16              | 16            |                  | C90-3561-05       | 4700UF                  | 4                        |
| C17              | 18            |                  | CK45FF1H103Z      | 0.010UF                 |                          |
| C22              |               |                  | CE04KW1H47M       | 0.010UF                 |                          |
| C23              |               |                  | CE04KW1H47M       | 4.7UF                   |                          |
| C24              |               |                  | CK45FF1H223Z      | 0.022UF                 | 5                        |
| C31              | -34           |                  | CK45FF1H103Z      | 0.010UF                 |                          |
| C35              |               |                  | CE04KW1H102M      | 0.010UF                 |                          |
| C36              |               |                  | CK45FF1H104Z      | 0.10UF                  |                          |
| C37              |               |                  | CE04KW1C470M      | 47UF                    | 5                        |
| C38              |               |                  | CE04KW1H221M      | 220UF                   |                          |
| C39              |               |                  | CE04KW1V101M      | 100UF                   |                          |
| C40              |               |                  | CK45FF1H104Z      | 0.10UF                  |                          |
| C99              |               |                  | CK45FB1H272K      | 2700PF                  | 5                        |
| C100             |               |                  | CC45CH1H102J      | 1000PF                  |                          |
| C101             | 102           |                  | CE04KW1H102J      | 1000PF                  |                          |
| C103             | -106          |                  | CC45CH1H102J      | 1000PF                  |                          |
| C107             | 108           |                  | CE04KW1A101M      | 100UF                   | 5                        |
| C109             | 110           |                  | C992FM1H32J       | MYLAR                   |                          |
| C111             | 112           |                  | C992FM1H123J      | MYLAR                   |                          |
| C113             | 114           |                  | CE04KW1H47M       | 4.7UF                   |                          |
| C115             |               |                  | CK45FF1H103Z      | 0.010UF                 | 5                        |
| C117             | 118           |                  | CK45FF1H104Z      | 0.010UF                 |                          |
| C119             | -128          |                  | CC45CH1H221J      | 220PF                   |                          |
| C131             | -134          |                  | CC45CH1H221J      | 220PF                   |                          |
| C135             | 136           |                  | CE04KW1C470M      | 47UF                    | 5                        |
| C137             |               |                  | CE04KW1H221J      | 220PF                   |                          |
| C138             | 139           |                  | CC45SL1H101J      | 100PF                   |                          |
| C140             |               |                  | CC45CH1H102J      | 1000PF                  |                          |
| C148             |               |                  | CE04KW1H010M      | 1.0UF                   | 5                        |
| C149             | 150           |                  | CK45FF1H103Z      | 0.010UF                 |                          |
| C152             |               |                  | CE04BP1H010M      | NP-ELEC                 |                          |
| C153             |               |                  | CE04KW1H010M      | 1.0UF                   |                          |
| C154             |               |                  | CC45CH1H102J      | 1000PF                  | 5                        |
| C155             |               |                  | CE04KW1H010M      | 1.0UF                   |                          |
| C156             |               |                  | CE04KW1C101M      | 100UF                   |                          |
| C159             | 160           |                  | C992FM1H273J      | MYLAR                   |                          |
| C201             | 202           |                  | CE04KW1H47M       | 4.7UF                   | 5                        |
| C203             | 204           |                  | CC45SL1H680J      | 68PF                    |                          |
| C203             | 204           |                  | CE04KW1H680J      | 68PF                    |                          |
| C203             | 204           |                  | CE04KW1H680J      | 68PF                    |                          |

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| Ref. No.<br>参照番号 | Address<br>位置 | New Parts<br>新部品 | Parts No.<br>部品番号 | Description<br>部品名 / 規格 | Desti-<br>nation<br>仕向備考 |
|------------------|---------------|------------------|-------------------|-------------------------|--------------------------|
| 651              | 1J            |                  | T90-0184-08       | LOOP ANTENNA            |                          |
| 652              | 1J            |                  | T90-0185-05       | ANTENNA ADAPTER         |                          |
| ELECTRIC PARTS   |               |                  |                   |                         |                          |
| LD901            |               |                  | B30-0413-05       | LED(LTL4213(RED))       |                          |
| C1               |               |                  | C91-0647-05       | CERAMIC                 | 5                        |
| C2               | -4            |                  | CK45FF1H103Z      | 0.01UF                  |                          |
| C5               |               |                  | CE04KW1E471M      | 0.010UF                 |                          |
| C6               |               |                  | CE04KW1H100M      | 470UF                   |                          |
| C7               |               |                  | CE04KW1H101M      | 100UF                   | 4                        |
| C8               |               |                  | CE04KW1H101M      | 100UF                   |                          |
| C9               |               |                  | CE04KW1H101M      | 100UF                   |                          |
| C10              |               |                  | CE04KW1H101M      | 100UF                   |                          |
| C11              |               |                  | CE04KW1H102M      | 2.2UF                   | 5                        |
| C12              |               |                  | CE04KW1H102M      | 22UF                    |                          |
| C13              | 14            |                  | CK45F1H473Z       | 0.047UF                 |                          |
| C15              | 16            |                  | C90-0369-05       | 6800PF                  |                          |
| C16              | 16            |                  | C90-3561-05       | 4700UF                  | 4                        |
| C17              | 18            |                  | CK45FF1H103Z      | 0.010UF                 |                          |
| C22              |               |                  | CE04KW1H47M       | 0.010UF                 |                          |
| C23              |               |                  | CE04KW1H47M       | 4.7UF                   |                          |
| C24              |               |                  | CK45FF1H223Z      | 0.022UF                 | 5                        |
| C31              | -34           |                  | CK45FF1H103Z      | 0.010UF                 |                          |
| C35              |               |                  | CE04KW1H102M      | 0.010UF                 |                          |
| C36              |               |                  | CK45FF1H104Z      | 0.10UF                  |                          |
| C37              |               |                  | CE04KW1C470M      | 47UF                    | 5                        |
| C38              |               |                  | CE04KW1H221M      | 220UF                   |                          |
| C39              |               |                  | CE04KW1V101M      | 100UF                   |                          |
| C40              |               |                  | CK45FF1H104Z      | 0.10UF                  |                          |
| C99              |               |                  | CK45FB1H272K      | 2700PF                  | 5                        |
| C100             |               |                  | CC45CH1H102J      | 1000PF                  |                          |
| C101             | 102           |                  | CE04KW1H102J      | 1000PF                  |                          |
| C103             | -106          |                  | CC45CH1H102J      | 1000PF                  |                          |
| C107             | 108           |                  | CE04KW1A101M      | 100UF                   | 5                        |
| C109             | 110           |                  | C992FM1H32J       | MYLAR                   |                          |
| C111             | 112           |                  | C992FM1H123J      | MYLAR                   |                          |
| C113             | 114           |                  | CE04KW1H47M       | 4.7UF                   |                          |
| C115             |               |                  | CK45FF1H103Z      | 0.010UF                 | 5                        |
| C117             | 118           |                  | CK45FF1H104Z      | 0.010UF                 |                          |
| C119             | -128          |                  | CC45CH1H221J      | 220PF                   |                          |
| C131             | -134          |                  | CC45CH1H221J      | 220PF                   |                          |
| C135             | 136           |                  | CE04KW1C470M      | 47UF                    | 5                        |
| C137             |               |                  | CE04KW1H221J      | 220PF                   |                          |
| C138             | 139           |                  | CC45SL1H101J      | 100PF                   |                          |
| C140             |               |                  | CC45CH1H102J      | 1000PF                  |                          |
| C148             |               |                  | CE04KW1H010M      | 1.0UF                   | 5                        |
| C149             | 150           |                  | CK45FF1H103Z      | 0.010UF                 |                          |
| C152             |               |                  | CE04BP1H010M      | NP-ELEC                 |                          |
| C153             |               |                  | CE04KW1H010M      | 1.0UF                   |                          |
| C154             |               |                  | CC45CH1H102J      | 1000PF                  | 5                        |
| C155             |               |                  | CE04KW1H010M      | 1.0UF                   |                          |
| C156             |               |                  | CE04KW1C101M      | 100UF                   |                          |
| C159             | 160           |                  | C992FM1H273J      | MYLAR                   |                          |
| C201             | 202           |                  | CE04KW1H47M       | 4.7UF                   | 5                        |
| C203             | 204           |                  | CC45SL1H680J      | 68PF                    |                          |
| C203             | 204           |                  | CE04KW1H680J      | 68PF                    |                          |
| C203             | 204           |                  | CE04KW1H680J      | 68PF                    |                          |



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|------------------|---------------|-------------------|------------------------------|--------------------|
| C852             |               | CK45F1H103M       | CERAMIC                      |                    |
| C853, 854        |               | CC45CH1H220J      | 0.010UF M                    |                    |
| C855             |               | CC45EB1H471K      | 22PF J                       |                    |
| C856             |               | CC45SL1H221J      | 470PF K                      |                    |
| C857, 858        |               | CC45CH1H101J      | 220PF J                      |                    |
|                  |               |                   | 100PF J                      |                    |
| C859             |               | CE04KW1H0R1M      | ELECTRØ                      |                    |
| C860             |               | CK45E1H103M       | 0.1UF 50WV                   |                    |
| C861             |               | CE04KW1C470M      | CERAMIC                      |                    |
| C862             |               | CK45F1H103M       | ELECTRØ                      |                    |
| C863, 864        |               | CE04KW1C100M      | 470UF 16WV                   |                    |
|                  |               |                   | 10UF 16WV                    |                    |
| C865, 866        |               | CK45F1H103M       | ELECTRØ                      |                    |
| C868             |               | CC45SL1H270J      | 0.010UF M                    |                    |
| C869             |               | CC45FF1H103Z      | 27PF J                       |                    |
| C871             |               | CC45SL1H271J      | 0.010UF Z                    |                    |
| C872             |               | CE04KW1C100M      | 270PF J                      |                    |
|                  |               |                   | 10UF 16WV                    |                    |
| C873             |               | CK45F1H103M       | ELECTRØ                      |                    |
| C874, 875        |               | CC45SL1H270J      | 0.010UF M                    |                    |
| C876             |               | CK45F1H103M       | 27PF J                       |                    |
| C877, 878        |               | CE04KW1C100M      | 0.010UF M                    |                    |
| C879, 880        |               | CK45F1H103M       | 10UF 16WV                    |                    |
|                  |               |                   | 0.010UF M                    |                    |
| C903, 904        |               | CE04KW1C330M      | CERAMIC                      |                    |
| C905             |               | CE04KW1H4R7M      | ELECTRØ                      |                    |
| C906             |               | C90-1827-05       | 33UF 16WV                    |                    |
| C907             |               | CE04KW1A101M      | 4.7UF 50WV                   |                    |
|                  |               | CK45F1H103M       | BACKUP                       |                    |
| C911, 912        |               | CK45FF1H103Z      | 100UF 10WV                   |                    |
| C913, 914        |               | CK45FF1H223K      | 0.010UF M                    |                    |
| C921, 922        |               | CE04KW1H4R7M      | 0.010UF Z                    |                    |
| C923, 924        |               | C922FM1H153J      | 0.022UF K                    |                    |
| C925, 926        |               | C922FM1H683J      | 4.7UF 50WV                   |                    |
|                  |               |                   | 0.015UF J                    |                    |
| C927, 928        |               | CK45F1H022M       | 0.068UF J                    |                    |
| C929, 930        |               | CC45SL1H220J      | 0.0082UF M                   |                    |
| C931, 932        |               | CC45CH1H101J      | 22PF J                       |                    |
| C933, 934        |               | C922FM1H333J      | 100PF J                      |                    |
| C946             |               | CK45FF1H103Z      | MYLAR                        |                    |
|                  |               |                   | 0.033UF J                    |                    |
| C950             |               | CK45F1H103M       | CERAMIC                      |                    |
|                  |               |                   | 0.010UF Z                    |                    |
| E1               |               | PHØØ JACK         | CERAMIC                      |                    |
| E2               |               | E70-0035-08       | 0.010UF M                    |                    |
| E3, 4            |               | E70-0037-08       | PHØØ JACK                    |                    |
| E5               |               | E70-0038-08       | CD, TAPE1                    |                    |
| E6               |               | E70-0004-08       | TAPE2, VIDEO1, 2             |                    |
|                  |               | E11-0189-05       | LOCK TERMINAL BOARD SPEAKERS |                    |
| JACK801          |               |                   | MINIATUA PHONE JACK SYNCHØØ  |                    |
| PHONE            |               |                   | TERMINAL BOARD ANTENNA       |                    |
| F1               |               | E70-0023-08       | PHONE JACK                   |                    |
| F2               | 2I            | E11-0263-08       | HEAD PHONES                  |                    |
| F3               | 1J            | F05-1623-05       | FUSE SENCØ T1.6A/250V        |                    |
|                  | 1J            | F06-2021-05       | FUSE SENCØ T2A/250V          |                    |
|                  | 1J            | F05-2525-05       | FUSE SENCØ T2.5A/250V        |                    |
|                  | 2J            | F06-1022-05       | FUSE SENCØ T1A/250V          |                    |
| -                |               | J13-0084-08       | FUSE CLIP                    |                    |
| CF801, 802       |               | L72-0575-08       | CERAMIC FILTER               |                    |
| L201, 202        |               | L39-1303-08       | 0.15UH                       |                    |
| L301             |               | L33-0379-08       | INDUCTØR                     |                    |
| L801             |               | L40-1091-17       | 22UH                         |                    |
| L802             | *             | L39-1322-08       | SMALL FIXED INDUCTØR 1UH     |                    |
|                  |               |                   | CØIL                         |                    |

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|------------------|---------------|-------------------|-------------------------------|--------------------|
| L803             |               | L33-0381-08       | SMALL FIXED INDUCTØR 1mH      |                    |
| L804             |               | L30-0904-08       | IPT AM                        |                    |
| L805             |               | L30-0905-08       | IPT FM                        |                    |
| L806             |               | L30-0906-08       | IPT FM                        |                    |
| L807             |               | L39-1323-08       | CØIL                          |                    |
| L808, 809        |               | L35-0070-08       | CØIL                          |                    |
| L810             | *             | L40-1091-17       | SMALL FIXED INDUCTØR 1UH      |                    |
| L811, 812        | *             | L40-1001-17       | SMALL FIXED INDUCTØR 10UH     |                    |
| L901             | *             | L40-1001-17       | SMØLL FIXED INDUCTER 10UH     |                    |
| L902, 903        | *             | L40-1091-17       | SMALL FIXED INDUCTØR 1UH      |                    |
| L905-908         | *             | L40-1091-17       | SMALL FIXED INDUCTØR 1UH      |                    |
| △ T1             |               | L07-0825-08       | TRANSFORMER                   |                    |
| △ T1             |               | L07-0828-08       | TRANSFORMER                   |                    |
| X801             |               | L78-0616-08       | RESONATOR 456kHz              |                    |
| X802             |               | L77-2126-08       | CRYSTAL 7.200MHz              |                    |
| X803             |               | L77-2127-08       | CRYSTAL 4.332MHz              |                    |
| X804             |               | L78-0617-08       | RESONATOR 4.00MHz             |                    |
| X901             |               | L78-0209-05       | RESONATOR 4.19MHz             |                    |
| G                | 2K            | N89-3010-46       | BINDING HEAD TAPTITE SCREW    |                    |
| CP1, 2           |               | R90-0187-05       | MULTI-COMP 0.22X2 K 5W        |                    |
| R3               |               | RD14GB2E101J      | FL-PROØF RD 100 J 1/4W        |                    |
| R31              |               | RD14GB2E101J      | FL-PROØF RD 100 J 1/4W        |                    |
| R32              |               | RS140B3D122J      | FL-PROØF RS 1.2K J 2W         |                    |
| R177             |               | RD14GB2E100J      | FL-PROØF RD 10 J 1/4W         |                    |
| R217-232         |               | RD14GB2E221J      | FL-PROØF RD 220 J 1/4W        |                    |
| R229-232         |               | RD14GB2E221J      | FL-PROØF RD 220 J 1/4W        |                    |
| R245-248         |               | RD14GB2E221J      | FL-PROØF RD 220 J 1/4W        |                    |
| R249             |               | RD14GB2E101J      | FL-PROØF RD 100 J 1/4W        |                    |
| R250             |               | RD14GB2E470J      | FL-PROØF RD 47 J 1/4W         |                    |
| R253, 254        |               | RS140B3A100J      | FL-PROØF RS 10 J 1W           |                    |
| R255, 256        |               | RS140B3A561J      | FL-PROØF RS 560 J 1W          |                    |
| R824             |               | RD14GB2E101J      | FL-PROØF RD 100 J 1/4W        |                    |
| R827             |               | RD14GB2E101J      | FL-PROØF RD 100 J 1/4W        |                    |
| R840             |               | RD14GB2E101J      | FL-PROØF RD 100 J 1/4W        |                    |
| R851             |               | RD14GB2E470J      | FL-PROØF RD 47 J 1/4W         |                    |
| R866             |               | RD14GB3D221J      | FL-PROØF RD 220 J 2W          |                    |
| VR101            | *             | R39-0001-08       | POTENTIOMETER 100KBX2 VOLUME  |                    |
| VR102            |               | R10-5071-08       | POTENTIOMETER BALANCE         |                    |
| VR201, 202       |               | R12-1066-05       | TRIM POT. 1KB IDLE ADJ        |                    |
| VR801            |               | R12-1053-05       | TRIM POT. 4.7KB AM TUNE LEVEL |                    |
| VR802            |               | R32-0012-08       | TRIM POT. 100KB FM TUNE LEVEL |                    |
| VR803            |               | R32-0012-08       | TRIM POT. 100KB SEPARATION    |                    |
| VR901, 902       | *             | R39-0002-08       | POTENTIOMETER BASS TREBLE     |                    |
| K1               | △             | S76-0034-08       | MAGNETIC RELAY                |                    |
| K2, 3            |               | S76-0035-08       | PUSH SWITCH                   |                    |
| SW1              | *             | S68-0040-08       | LOADNESS                      |                    |
| SW2              |               | S62-0032-08       | SLIDE SWITCH                  |                    |
| SW901-925        | *             | S70-0030-08       | TACT SWITCH                   |                    |
| SW926            | *             | S60-0030-08       | ROTARY SWITCH                 |                    |
| D1               |               | 1S5133            | DIØDE                         |                    |
| D2 -5            | △             | 1N4002A           | DIØDE                         |                    |
| D14, 15          | △             | 1N4002A           | DIØDE                         |                    |

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# PARTS LIST

## KR-A4060/A5060

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|------------------|---------------|-------------------|--------------------------------|-----------------------|--------------------|
| D16, 17          |               | 1SS133            | DIODE                          |                       | 4                  |
| D25, 26          |               | 1SS133            | DIODE                          |                       | 5                  |
| D30              |               | DBF40C            | DIODE                          |                       |                    |
| D31              |               | DBF60C            | DIODE                          |                       |                    |
| D31 - 36         |               | 1N4002A           | DIODE                          |                       |                    |
| D6-8, 10         |               | 1SS133            | DIODE                          |                       |                    |
| D101-104         |               | 1SS133            | DIODE                          |                       |                    |
| D107-110         |               | 1SS133            | DIODE                          |                       |                    |
| D12, 13          |               | 1SS133            | DIODE                          |                       |                    |
| D201, 202        |               | 1SS133            | DIODE                          |                       |                    |
| D203, 204        |               | 1N4002A           | DIODE                          |                       |                    |
| D205, 206        |               | 1SS133            | DIODE                          |                       |                    |
| D801-809         |               | 1SS133            | DIODE                          |                       |                    |
| D810             |               | RD5.1ES(B2)       | ZENER DIODE                    |                       |                    |
| D811             |               | 1SS133            | DIODE                          |                       |                    |
| D812             |               | RD13ES(B2)        | ZENER DIODE                    |                       |                    |
| D901-920         |               | 1SS133            | DIODE                          |                       |                    |
| D921             |               | MTZJ6.2B          | ZENER DIODE                    |                       |                    |
| D922             |               | MTZJ2.7B          | ZENER DIODE                    |                       |                    |
| D98, 99          |               | 1SS133            | DIODE                          |                       |                    |
| FLT901           |               | 10-MT-580K        | FLUORESCENT INDICATOR TUBE     |                       |                    |
| IC1              |               | MC7815C           | IC(VOLTAGE REGULATOR/+15)      |                       |                    |
| IC101            | *             | NJM4558DD         | IC(OP AMP X2)                  |                       |                    |
| IC102            |               | NJU7313L          | IC(ANALOG SWITCH) SELECTOR SW) |                       |                    |
| IC102            |               | TC9164N           | IC(16CH BILATERAL SELECTOR SW) |                       |                    |
| IC104            | *             | NJU7311L          | IC(ANALOG SWITCH)ARRAY)        |                       |                    |
| IC104            |               | TC9162N           | IC(ANALOG SWITCH ARRAY)        |                       |                    |
| IC105            | *             | NJU7312AL         | IC(BILATERAL SWITCH X16)       |                       |                    |
| IC105            |               | TC9163N           | IC(BILATERAL SWITCH X16)       |                       |                    |
| IC106            |               | BA6209N           | IC(MOTOR DRIVER)               |                       |                    |
| IC801            |               | LA1266            | IC(AM/FM IF)                   |                       |                    |
| IC802            |               | LA3401            | IC(FM MPX)                     |                       |                    |
| IC803            |               | LC7218            | IC(PLL SYNTHESIZER)            |                       |                    |
| IC804            |               | LM258N            | IC                             |                       |                    |
| IC805            |               | TD47330A          | IC(RDS DEMODULATOR)            |                       |                    |
| IC806            |               | LC6543H-4600      | IC(MICROPROCESSOR)             |                       |                    |
| IC810            |               | NJM78L05A         | IC(VOLTAGE REGULATOR/ +5V)     |                       |                    |
| IC810            |               | UPC78L05          | IC(VOLTAGE REGULATOR/ +5V)     |                       |                    |
| IC901            |               | UPD78044GF-021    | IC(8BIT MICROPROCESSOR)        |                       |                    |
| IC902            |               | PST529C           | IC(SYSTEM RESET)               |                       |                    |
| IC903            |               | NJM4558DD         | IC(OP AMP X2)                  |                       |                    |
| Q1               |               | 2SD882            | TRANSISTOR                     |                       |                    |
| Q2 - 5           |               | DTC114ES          | DIGITAL TRANSISTOR             |                       |                    |
| Q6               |               | 2SA916            | TRANSISTOR                     |                       |                    |
| Q8               |               | 2SA933S           | TRANSISTOR                     |                       |                    |
| Q10              |               | 2SA933S           | TRANSISTOR                     |                       |                    |
| Q101-104         |               | 2SC2878           | TRANSISTOR                     |                       |                    |
| Q105, 106        |               | DTA114ES          | DIGITAL TRANSISTOR             |                       |                    |
| Q107-109         |               | DTC114ES          | DIGITAL TRANSISTOR             |                       |                    |
| Q201-204         |               | 2SA992            | TRANSISTOR                     |                       |                    |
| Q205, 206        |               | 2SC1845           | TRANSISTOR                     |                       |                    |
| Q207, 208        |               | 2SA992            | TRANSISTOR                     |                       |                    |
| Q209, 210        |               | 2SC1845           | TRANSISTOR                     |                       |                    |
| Q211, 212        |               | 2SC4137(V)        | TRANSISTOR                     |                       |                    |

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Teile ohne Parts No. werden nicht geliefert.

8

| Ref. No.<br>参照番号 | Address<br>位置 | Parts No.<br>部品番号 | Description<br>部品名/規格   | Desti-<br>nation<br>仕 | Re-<br>marks<br>備考 |
|------------------|---------------|-------------------|-------------------------|-----------------------|--------------------|
| Q213, 214        | *             | 2SC2316           | TRANSISTOR              |                       |                    |
| Q215, 216        |               | 2SA916            | TRANSISTOR              |                       | 4                  |
| Q217, 218        | *             | 2SC4467           | TRANSISTOR              |                       | 5                  |
| Q217, 218        |               | 2SC4468           | TRANSISTOR              |                       |                    |
| Q219, 220        | *             | 2SA1694           | TRANSISTOR              |                       | 4                  |
| Q219, 220        |               | 2SA1695           | TRANSISTOR              |                       | 5                  |
| Q221, 222        |               | 2SC1845           | TRANSISTOR              |                       |                    |
| Q223, 224        |               | 2SC1740S          | TRANSISTOR              |                       |                    |
| Q801             |               | 2SC1740S          | TRANSISTOR              |                       |                    |
| Q802             |               | 2SA933S           | TRANSISTOR              |                       |                    |
| Q803             |               | 2SC1740S          | TRANSISTOR              |                       |                    |
| Q804             |               | 2SC31940          | TRANSISTOR              |                       |                    |
| Q805             |               | 2SC1845F          | TRANSISTOR              |                       |                    |
| Q806-808         |               | 2SC1740S          | TRANSISTOR              |                       |                    |
| Q809, 810        |               | 2SA933S           | TRANSISTOR              |                       |                    |
| Q811             |               | 2SD2041E          | TRANSISTOR              |                       |                    |
| Q901, 902        |               | 2SC1740S          | TRANSISTOR              |                       |                    |
| ZD1              |               | MTZJ3.9B          | ZENER DIODE             |                       |                    |
| ZD2, 3           |               | MTZJ5.1B          | ZENER DIODE             |                       |                    |
| ZD4              |               | RD6.2ES(B2)       | ZENER DIODE             |                       |                    |
| ZD6, 7           |               | MTZJ16A           | ZENER DIODE             |                       |                    |
| ZD8, 9           |               | MTZJ5.1B          | ZENER DIODE             |                       |                    |
| ZD10             |               | RD6.8ES(B2)       | ZENER DIODE             |                       |                    |
| ZD11             |               | MTZJ8.2B          | ZENER DIODE             |                       |                    |
| A901             |               | W02-1111-08       | ELECTRIC CIRCUIT MODULE |                       |                    |
| TUNER801         |               | W02-1041-15       | FM FRONT END            |                       |                    |

## SPECIFICATIONS

### KR-A4060

#### Audio section

Rated power output

(IEC/NF) from 63Hz~12,500Hz

0.7% T.H.D. at 8Ω ..... 60W + 60W

(DIN) 1,000Hz at 8Ω ..... 60W + 60W

1,000Hz at 4Ω ..... 55W + 55W

Total harmonic distortion (1kHz, 8Ω) 0.01% at 40W

Signal to noise ratio

Phono (MM) ..... 56dB (DIN, 50mW output)

CD, TAPE, VIDEO ..... 57dB (DIN, 50mW output)

Input sensitivity/impedance

Phono (MM) ..... 2.5mV/47kΩ

CD, TAPE, VIDEO ..... 200mV/47kΩ

Tone controls

BASS ..... ±10dB (at 100Hz)

TREBLE ..... ±10dB (at 10kHz)

Loudness control at 30dB

Volume level ..... +9dB (at 100Hz)

#### FM tuner section

Tuning frequency range ..... 87.5MHz~108MHz

Usable sensitivity (DIN at 75Ω)

MONO ..... 1.1μV

STEREO ..... 4.5μV

Total harmonic distortion at 1kHz (DIN)

MONO ..... 0.15%

STEREO ..... 0.5%

Signal to noise ratio (DIN weighted at 1kHz)

MONO ..... 68dB (65.2dBf input)

STEREO ..... 61dB (65.2dBf input)

Selectivity (DIN ±300kHz) ..... 53dB

Stereo separation (DIN) at 1kHz ..... 40dB

Frequency response ..... 30Hz~15kHz, +0.5dB, -2.0dB

#### AM tuner section

Tuning frequency range ..... 531kHz~1,602kHz

Usable sensitivity ..... 12μV (400μV/m)

Total harmonic distortion ..... 0.3%

Signal to noise ratio (at 30% mod. 1mV input) ..... 50dB

Selectivity ..... 30dB

#### General

Power consumption ..... 120W

AC outlet (Switched) ..... 2 : (total 200W max.)

Dimensions ..... W : 440mm x H : 133mm X D : 350mm

Weight (net) ..... 6.8kg

### KR-A5060

#### Audio section

Rated power output

(IEC/NF) from 63Hz~12,500Hz

0.7% T.H.D. at 8Ω ..... 100W + 100W

(DIN) 1,000Hz at 8Ω ..... 100W + 100W

1,000Hz at 4Ω ..... 90W + 90W

Total harmonic distortion (1kHz, 8Ω) 0.01% at 50W

Signal to noise ratio

Phono (MM) ..... 56dB (DIN, 50mW output)

CD, TAPE, VIDEO ..... 57dB (DIN, 50mW output)

Input sensitivity/impedance

Phono (MM) ..... 2.5mV/47kΩ

CD, TAPE, VIDEO ..... 200mV/47kΩ

Tone controls

BASS ..... ±10dB (at 100Hz)

TREBLE ..... ±10dB (at 10kHz)

Loudness control at 30dB

Volume level ..... +9dB (at 100Hz)

#### FM tuner section

Tuning frequency range ..... 87.5MHz~108MHz

Usable sensitivity (DIN at 75Ω)

MONO ..... 1.1μV

STEREO ..... 4.5μV

Total harmonic distortion at 1kHz (DIN)

MONO ..... 0.15%

STEREO ..... 0.5%

Signal to noise ratio (DIN weighted at 1kHz)

MONO ..... 68dB (65.2dBf input)

STEREO ..... 61dB (65.2dBf input)

Selectivity (DIN ±300kHz) ..... 53dB

Stereo separation (DIN) at 1kHz ..... 40dB

Frequency response ..... 30Hz~15kHz, +0.5dB, -2.0dB

#### AM tuner section

Tuning frequency range ..... 531kHz~1,602kHz

Usable sensitivity ..... 12μV (400μV/m)

Total harmonic distortion ..... 0.3%

Signal to noise ratio (at 30% mod. 1mV input) ..... 50dB

Selectivity ..... 30dB

#### General

Power consumption ..... 180W

AC outlet (Switched) ..... 2 : (total 200W max.)

Dimensions ..... W : 440mm x H : 133mm X D : 350mm

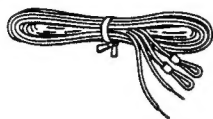
Weight (net) ..... 8.2kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

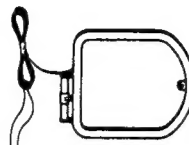
# KR-A4060/A5060

## ACCESSORIES

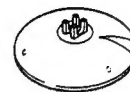
- FM indoor antenna ..... 1  
(T90-0182-05 : **Except E, T type**)  
(T90-0176-05 : **E, T type**)



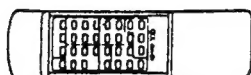
- AM loop antenna ..... 1  
(T90-0184-08)



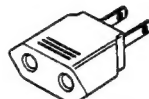
- Loop antenna holder ..... 1  
(J19-2815-04)



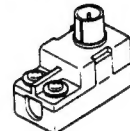
- Remote control ass'y (RC-R5030) .. 1  
(A70-0985-08)



- AC plug adaptor ..... 1  
(E03-0115-05 : **Except E, T type only**)

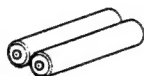


- Antenna adaptor (75Ω/300Ω) ..... 1  
(T90-0185-05 : **E, T type only**)



- Battery cover (A09-0170-08)

- Batteries (R6/AA) ..... 2



*Except for U.K., Europe and Australia.  
For the unit with a European AC plug in areas other than Europe.*

*For U.K. and Europe.*

### Note :

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S.A. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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